```
     FILE 'HCAPLUS' ENTERED AT 08:46:06 ON 03 JUN 2003
L1      1133826 S CATALY?
L2       193516 S ADHESIVE? OR SEALANT?
L3        89313 S PLAYGROUND? OR SPORT? OR OUTDOOR? OR WEATHER?
L4         1135 S BASKETBALL OR TENNIS OR FOOTBALL OR BADMINTON OR PLAYFIELD? O
L5         1039 S ATHLETIC OR ATHLETICS
L6           24 S BACKBOARD?
L7         3267 S L1(5N)L2
L8        90697 S L3 OR L4 OR L5 OR L6
L9           66 S L7 AND L8
L10        8476 S PLAYGROUND? OR SPORT? OR ATHLETIC?
L11           1 S L9 AND (L10 OR L4 OR L6)
```

L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:912136 HCAPLUS
DOCUMENT NUMBER: 136:7953
TITLE: Aqueous adhesives for target paper
INVENTOR(S): Zhang, Guangjin
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1291668	A	20010418	CN 2000-133244	20001120

PRIORITY APPLN. INFO.: CN 2000-133244 20001120

AB Target paper was coated with an adhesive contg. 1:1 (molar) maleic anhydride-styrene copolymer.

IT Adhesives
Paper
Sporting goods
(maleic anhydride-styrene copolymer adhesives for target paper)

IT Polymerization ***catalysts***
(radical; maleic anhydride-styrene copolymer ***adhesives*** for target paper)

IT 78-67-1, Azodiisobutyronitrile 94-36-0, Benzoyl peroxide, uses
RL: CAT (Catalyst use); USES (Uses)
(maleic anhydride-styrene copolymer adhesives for target paper)

IT 9011-13-6P, Maleic anhydride-styrene copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(maleic anhydride-styrene copolymer adhesives for target paper)

those formulated with conventionally produced SBCs. As a result of the higher performance offered by VECTOR **elastomers** , **adhesives** and sealants
can be formulated which exceed previous performance specifications. Alternatively, formulators can maintain the level of performance of their products while reducing costs by...

...FDA) guidelines on food
additives. These elastomers are available in a wide range of hardnesses and are marketed for use in the manufacture of toys, **sporting goods** ,
housewares, footwear and other products.

Because the production technology used to manufacture VECTOR SBCs results in extremely pure, consistent elastomers Dexco heavily targets the healthcare...

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200334
File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	**7**	**AU='STEVENS L' [not relevant]**
S2	44	AU='STEVENS L A' OR AU='STEVENS L C':AU='STEVENS L W'
S3	559052	ADHESIVE? OR SEALANT?
S4	0	S1 AND S3
S5	**1**	**S2 AND S3 [not relevant]**
S6	1269	BASKETBALL
S7	0	S2 AND S6

File 348:EUROPEAN PATENTS 1978-2003/May W04
File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

Set	Items	Description
S1	**4**	**AU='STEVENS LARRY E' OR AU='STEVENS LARRY G H' OR AU='STEVENS LARRY MARK' OR AU='STEVENS LAWRENCE R'[not relevant]**

File 8:Ei Compendex(R) 1970-2003/May W4
File 31:World Surface Coatings Abs 1976-2003/May
File 34:SciSearch(R) Cited Ref Sci 1990-2003/May W4
File 65:Inside Conferences 1993-2003/Jun W1
File 94:JICST-EPlus 1985-2003/Jun W1
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Apr
File 144:Pascal 1973-2003/May W4
File 315:ChemEng & Biotec Abs 1970-2003/May
File 323:RAPRA Rubber & Plastics 1972-2003/Jun
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 19:Chem.Industry Notes 1974-2003/ISS 200322
File 50:CAB Abstracts 1972-2003/Apr
File 319:Chem Bus NewsBase 1984-2003/Jun 03
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
File 35:Dissertation Abs Online 1861-2003/May

Set	Items	Description
S1	1015431	CATALY?
S2	254247	ADHESIVE? OR SEALANT?
S3	141634	PLAYGROUND? OR SPORT? ? OR BASKETBALL OR FOOTBALL OR TENNIS OR BADMINTON
S4	0	PLAYFIELD? ORPLAY???()FIELD? ?
S5	22198	ATHLETIC? ?
S6	1978726	EQUIPMENT OR APPARATUS?
S7	148	BACKBOARD? ?
S8	1091	S1(5N)S2
S9	1254	PLAY???()FIELD OR PLAYFIELD?
S10	50	S8 AND (S3 OR S5:S7 OR S9)
S11	199160	OUTDOOR? ? OR WEATHER
S12	10	S8 AND S11
S13	60	S10 OR S12
S14	59	RD (unique items)
S15	14	S8(S)(S3 OR S5:S7 OR S9 OR S11)
S16	13	RD (unique items)
S17	**13**	**Sort S16/ALL/PY,D**
S18	2	S8 AND (S3 OR S5 OR S7)
S19	**1**	**S18 NOT S17**
S20	10	S8 AND (S9 OR S11)
S21	0	S20 NOT (S13 OR S18)
S22	9	S20 NOT (S15 OR S18)
S23	9	RD (unique items)
S24	**9**	**Sort S23/ALL/PY,D**

17/6/6 (Item 6 from file: 8)
02542034
Title: EXTERIOR AND ACCELERATED AGING OF AN ACID-PHENOLIC MOLDING RESIN IN rf-CURED DOUGLAS-FIR JOINTS.
Publication Year: 1987

17/7,K/1 (Item 1 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

00773724
TITLE: ADHESIVES: STICKING TO GROWTH
AUTHOR(S): McCoy M
SOURCE: Chemical and Engineering News; 78, No.22, 29th May 2000, p.21-32
ISSN: 0009-2347

CODEN: CENEAR JOURNAL ANNOUNCEMENT: 200008 RAPRA UPDATE: 200015
DOCUMENT TYPE: Journal Article
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: The adhesives industry is changing and adhesives raw materials suppliers are playing an important role in helping adhesives makers navigate change. The change in the industry stems from steps being taken by the big global adhesives formulators to increase growth and profits. These moves include acquisitions, manufacturing consolidation and development of new products based on unique chemicals and polymers. For adhesives formulators, the most sought-after fruit of a well-managed supplier relationship is exclusive supply of a raw material that provides competitive advantage in the marketplace.
...DESCRIPTORS: ROSIN POLYMER; RUBBER; SALE; SALES; SBR; SILICON POLYMER; SILICON-CONTAINING POLYMER; SILICONE POLYMER; SINGLE SITE **CATALYSIS** ; **SPORTS** SHOE; STATISTICS; STRUCTURAL **ADHESIVE** ; SUPPLY; TACKIFIER; TAKEOVER; TAPE; THERMOPLASTIC; THERMOSET; ULTRAVIOLET CURING; UNSATURATED POLYESTER; UV CURING; VEHICLE; WATER-BORNE...

17/7,K/3 (Item 3 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2003 The HW Wilson Co. All rts. reserv.
1145584 H.W. WILSON RECORD NUMBER: BAST94014139
Green issues driving materials and equipment
Polifka, Walter S;
Adhesives Age v. 37 (Jan. '94) p. 17
DOCUMENT TYPE: Feature Article ISSN: 0001-821X
ABSTRACT: Part of a special section on 1994 forecasts of adhesives industry representatives. Environmental issues will continue to drive the development of new adhesive materials and the **equipment** required to utilize these materials. Increases in the use of moisture-cure urethane hot melts and 2-component, acid- **catalyzed** contact **adhesives** in wide industrial applications were the most notable material trends in 1993. The long-term future for this category of adhesives is dependent on the perceived safety and user liability issues associated with the potential release of free isocyanates that form when these products are heated.

17/7,K/10 (Item 10 from file: 31)
DIALOG(R)File 31:World Surface Coatings Abs
(c) 2003 Paint Research Assn. All rts. reserv.
00330301 WSCA ABSTRACT NUMBER: 79-05270 WSCA ID NUMBER: 85270
New energy saving reactive acrylic liquid polymers for pressure-sensitive adhesives industry.
LEE Y-S
ACS, Div. of ORPL, Papers 1978, Vol 39, 25-30.
1978
ABSTRACT: A series of reactive liquid acrylic polymers were designed to conform to stringent EPA standards and energy requirements. The polymers are in the form of a 70% solids solution which, when combined with an isocyanate prepolymer and **catalyst** , give a pressure-sensitive **adhesive A formulation** of approximately 80% solids. This high-solids system is compatible with conventional **equipment** such as knife-over-roll and reverse roll. This paper discusses (1) the economic advantages, (2) properties, (3) property changes that occur on varying the ratio of isocyanate prepolymer to acrylic polymer, and (4) processing parameters of

these adhesives.

19/7,K/1 (Item 1 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

00355970
TITLE: OZONE PRE-TREATMENT IN THE MANUFACTURE OF SURFBOARDS
AUTHOR(S): Hertrampf J
CORPORATE SOURCE: MESSER-GRIESHEIM GMBH
SOURCE: Adhasion; 32, No.1/2, Jan/Feb.1988, p.12/6
ISSN: 0001-8198
CODEN: ADHEA2 JOURNAL ANNOUNCEMENT: 198808 RAPRA UPDATE: 198815
DOCUMENT TYPE: Journal Article
LANGUAGE: German
SUBFILE: (R) RAPRA; (A) Adhesives
ABSTRACT: To manufacture surfboards economically, PS shells are filled with PU foam or with a pre-fabricated core of PS foam. Difficulties with adhesion have been experienced and conventional processes have not been successful. Ozone pre-treatment of the PS has however been an economic way of improving quality. The properties of the material have not been affected by the treatment. Safety aspects of the process are also considered.
...SUBJECT HEADING (RAPRA): ozone; **SPORTS** EQUIPMENT...
...SUBJECT HEADING (Adhesives): ozone; **SPORTS** EQUIPMENT...
DESCRIPTORS: ABS; ADHESION; ADHESION PROMOTION; **ADHESIVE** ; AIR POLLUTION; POLLUTION; ASA; **CATALYST** ; COMPANY; COMPANIES; CORE; COST; DATA; DOUBLE-SIDED; EB; ELONGATION AT BREAK; ENVIRONMENT; FILM; FOAM; CELLULAR...
...PE; ETHYLENE POLYMER; PLASTIC; PP; PROPYLENE POLYMER; PS; STYRENE POLYMER; PU; POLYURETHANE; RUBBER; SAFETY; SHELL; **SPORTS** EQUIPMENT; SURFBOARD; TECHNICAL; THERMOPLASTIC; THERMOSET; TS; TENSILE PROPERTIES; GLASS FIBER-REINFORCED PLASTIC

24/7/1 (Item 1 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

00799045
TITLE: WOOD ADHESIVES
AUTHOR(S): Lopez-Anido R; Gardner D J; Hensley J L
CORPORATE SOURCE: Maine,University; Milwaukee,School of Engineering
SOURCE: Adhesives Age; 43, No.11, Nov.2000, p.25/34
ISSN: 0001-821X
CODEN: ADHAAO JOURNAL ANNOUNCEMENT: 200103 RAPRA UPDATE: 200105
DOCUMENT TYPE: Journal Article
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: An efficient composite panel for decking applications is proposed by reinforcing eastern hemlock glulam panels with E-glass/vinyl ester resin face sheets. This study examines the adhesive shear strength of vinyl ester resin bonded wood and compares this to phenol-resorcinol-formaldehyde bonded wood using a modified ASTM D905 Compression Shear Test and a cyclic delamination test. A hydroxymethylated resorcinol primer was also examined as a means to improve vinyl ester bonding with wood. 16 refs.

24/7/2 (Item 2 from file: 31)
DIALOG(R)File 31:World Surface Coatings Abs
(c) 2003 Paint Research Assn. All rts. reserv.
00540433 WSCA ABSTRACT NUMBER: 00-08955 WSCA ID NUMBER: 508955
Curable resin composition.
PATENT ASSIGNEE: SEKISUI CHEMICAL INDUSTRY CO;
PATENT INFORMATION: Japanese Unexamined Patent , 5 pp: Jap. Pat. Abs (Unexamined) 2000, No 13, Gp G, 492.
PATENT (NUMBER,DATE): JP 2000007861 20000000
PUBLICATION YEAR: 2000
ABSTRACT: The resin is used as an **adhesive** and joint mixture for tiling. The product has good adhesion, durability and **weatherability** and cures faster than former inorganic joint mixtures. The compsn. comprises a silyl-modified saturated hydrocarbon polymer, epoxy resin and silanol condensation **catalyst** and epoxy resin curing **catalyst**.

24/7/3 (Item 3 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics
(c) 2003 RAPRA Technology Ltd. All rts. reserv.
00633769
TITLE: THERMOSETTING COMPOSITIONS, METHODS OF COATING AND COATED ARTICLES
AUTHOR(S): Ishidoya M; Shibato K; Komoto K; Shibamoto K; Mashita M; Ohe O
CORPORATE SOURCE: Nippon Oil & Fats Co.Ltd.
PATENT NUMBER: US 5549932 A
PATENT DATE: 19960827
PATENT COUNTRY/KIND CODE: US A
APPLICATION NUMBER: US 401198 (US 401198-1995)
APPLICATION DATE: 19950309
PRIORITY NUMBER: JP 9094267; JP 90259695; JP 90288776; JP 9189510; JP 91283514; JP 91283515; JP 91287129; JP 91287130; JP 9291985; JP 9292240 ; JP 9297055; JP 9297057; JP 9297058; JP 92255847
PRIORITY DATE: 19900410; 19900928; 19901026; 19910328; 19911003; 19911003 ; 19911007; 19911007; 19920318; 19920318; 19920324; 19920324; 19920324; 19920831
JOURNAL ANNOUNCEMENT: 199708 RAPRA UPDATE: 199714
DOCUMENT TYPE: Patent
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: These compositions comprise a compound having in the molecule two or more carboxyl groups blocked by a vinyl ether compound, a vinyl thioether compound or a hetero compound having a vinyl type double bond and oxygen or sulphur as the hetero atom, a compound having two or more reactive functional groups, which can form a chemical bond with the blocked carboxyl compound by heating, a specific vinyl ether or vinyl thioether and a thermal latent acid catalyst. The blocked carboxy group of the first compound and the reactive functional group of the second compound may be comprised in the same molecule. They provide cured products having excellent chemical properties, physical properties, **weathering resistance** and storage stability and are used for coatings, inks, **adhesives** and moulded plastics.

24/7/4 (Item 4 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics
(c) 2003 RAPRA Technology Ltd. All rts. reserv.

00571385
TITLE: THERMOSETTING COMPOSITIONS, THERMAL LATENT ACID CATALYSTS, METHODS OF COATING AND COATED ARTICLES
AUTHOR(S): Ishidoya M; Shibato K; Komoto K; Shibamoto K; Mashita M; Ohe O
CORPORATE SOURCE: Nippon Oil & Fats Co.Ltd.
PATENT NUMBER: US 5419929 A
PATENT DATE: 19950530
PATENT COUNTRY/KIND CODE: US A
APPLICATION NUMBER: US 948017 (US 948017-1992)
APPLICATION DATE: 19920921
PRIORITY NUMBER: JP 9094267; JP 90259695; JP 90288776; JP 9189510; JP 91283514; JP 91283515; JP 91287129; JP 91287130; JP 9291985; JP 9292240 ; JP 9297055; JP 9297057; JP 9297058; JP 92255847
PRIORITY DATE: 19900410; 19900928; 19901026; 19910328; 19911003; 19911003 ; 19911007; 19911007; 19920318; 19920318; 19920324; 920324; 19920324; 19920831
JOURNAL ANNOUNCEMENT: 199602 RAPRA UPDATE: 199602
DOCUMENT TYPE: Patent
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: The compositions comprise a compound having in the molecule two or more carboxyl groups blocked by a vinyl ether compound, a vinyl thioether compound or a hetero compound having a vinyl type double bond and oxygen or sulphur as the hetero atom, a compound having two or more reactive functional groups, which can form a chemical bond with the blocked carboxyl compound by heating, a specific vinyl ether or vinyl thioether and a thermal latent acid catalyst. The blocked carboxyl group of the first compound and the reactive functional group of the second compound may be comprised in the same molecule. Cured articles have excellent chemical properties, physical properties, **weathering** resistance and storage stability and are used for coating compositions, inks, **adhesives** and moulded plastics.

24/7/5 (Item 5 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

00547488
TITLE: THERMOSETTING COMPOSITIONS, THERMAL LATENT CARBOXYL COMPOUNDS AND METHODS OF PREPARATION THEREOF
AUTHOR(S): Ishidoya M; Shibato K; Komoto K; Shibamoto K; Mashita M; Ohe O
CORPORATE SOURCE: Nippon Oil & Fats Co.Ltd.
PATENT NUMBER: US 5352740 A
PATENT DATE: 19941004
PATENT COUNTRY/KIND CODE: US A
APPLICATION NUMBER: US 680356 (US 680356-1991)
APPLICATION DATE: 19910404
PRIORITY NUMBER: JP 9094267; JP 90259695; JP 90288776; JP 9189510
PRIORITY DATE: 19900410; 19900928; 19901026; 19910328
JOURNAL ANNOUNCEMENT: 199506 RAPRA UPDATE: 199511
DOCUMENT TYPE: Patent
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: These compositions comprise a compound having in the molecule two or more carboxyl groups blocked by a vinyl ether compound, a vinyl

thioether compound or a hetero compound having a vinyl type double bond and oxygen or sulphur as the hetero atom, a compound having two or more reactive functional groups, which can form a chemical bond with the blocked carboxyl compound by heating and, optionally, a thermal latent acid catalyst. The blocked carboxyl group of the first compound and the reactive functional group of the second compound may be comprised in the same molecule. They exhibit excellent storage stability, give cured products with excellent chemical properties, physical properties and **weathering** resistance and are useful in coatings, inks, **adhesives** and moulded plastics.

24/7/6 (Item 6 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

00538210
TITLE: THERMOSETTING COMPOSITIONS, THERMAL LATENT HYDROXYL COMPOUNDS, THERMAL LATENT THIOL COMPOUNDS AND METHODS OF PREPARATION THEREOF
AUTHOR(S): Ishidoya M; Shibato K; Komoto K; Shibamoto K; Nakane Y
CORPORATE SOURCE: Nippon Oil & Fats Co.Ltd.
PATENT NUMBER: US 5319024 A
PATENT DATE: 19940607
PATENT COUNTRY/KIND CODE: US A
APPLICATION NUMBER: US 683301 (US 683301-1991)
APPLICATION DATE: 19910410
PRIORITY NUMBER: JP 90103888; JP 90259696; JP 90292659; JP 91100534
PRIORITY DATE: 19900419; 19900928; 19901030; 19910405
JOURNAL ANNOUNCEMENT: 199504 RAPRA UPDATE: 199505
DOCUMENT TYPE: Patent
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: Thermosetting compositions are disclosed, which have excellent storage stability, chemical properties, physical properties and **weathering** resistance, and can be used in coating compositions, inks, **adhesives** and moulded plastics. The compositions comprise (a) a compound having in the molecule two or more hydroxyl groups and/or thiol groups blocked by a vinyl ether compound, a vinyl thioether compound or a heterocyclic compound having a vinyl type double bond and oxygen or sulphur as the heteroatom, (b) a compound having two or more reactive functional groups which can form a chemical bond with the blocked hydroxyl and/or thiol compound by heating and (c) a thermal latent acid catalyst. The blocked hydroxyl and/or thiol group of the first compound and the reactive functional group of the second compound may be present in the same molecule.

24/7/7 (Item 7 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

00434680
TITLE: BORDEN XB-90K5. DATA SHEET
CORPORATE SOURCE: BORDEN INC.
SOURCE: (Columbus, Oh.), 1991, pp.3. 11ins. 23/9/91. 6121-6A14
JOURNAL ANNOUNCEMENT: 199202 RAPRA UPDATE: 199126
DOCUMENT TYPE: Conference Papers
LANGUAGE: English
SUBFILE: (R) RAPRA; (A) Adhesives

ABSTRACT: Details are given of Borden XB-90K5, a crosslinking emulsion which when **catalysed** with Borden's M-200L M-332LY or M-188L provides a **water resistant wood adhesive. It is designed for cold weather finger jointing and other cold set applications,** as well as hot pressing and RF curing. Emulsion properties, performance properties, and a volumetric addition chart for the catalyst are included.

24/7/8 (Item 8 from file: 31)
DIALOG(R)File 31:World Surface Coatings Abs
(c) 2003 Paint Research Assn. All rts. reserv.
00456967 WSCA ABSTRACT NUMBER: 92-04459 WSCA ID NUMBER: 344459
Curable resin composition with good core curing property.
PATENT ASSIGNEE: KANEGAFUCHI CHEMICAL INDUSTRY CO;
PATENT INFORMATION: Japanese Unexamined Patent , 7 pp: Jap. Pat. Abs (Unexamined) 1990, Vol 90 No 35, Gp G, 12.
PATENT (NUMBER,DATE): JP 2185565 19900000
PUBLICATION YEAR: 1990
ABSTRACT: The compsn. shows deep curability, provides coatings, pressure-sensitive **adhesives,** sealants, etc, and has heat and **weather** resistance. It comprises a saturated hydrocarbon polymer with hydroxy or hydrolysable silicon-containing groups cross-linkable by formation of siloxane linkages, together with a hydrated alkali(ne earth) metal salt and a catalyst for condensation of silanol groups. The ratio of silanol or hydrolysable groups to water in the hydrate is 1:0.3-10 and the polymer has a number-average MW of 1000-1500.

24/7/9 (Item 9 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.
00736387 CAB Accession Number: 780648089
The performance of some catalysed **polyvinyl acetate (PVAc) wood** adhesives .
Beech, J. C.
Building Res. Estab., Princes Risborough Lab., Princes Risborough, Aylesbury, Bucks, UK.
Journal of the Institute of Wood Science vol. 7 (6): p.7-17
Publication Year: 1977
ISSN: 0020-3203
1 pl. --
Language: English
Document Type: Journal article
Strength properties of 5 commercial catalysed PVAc wood glues under sustained load were determined in severe laboratory conditions or after exposure **outdoors** for 12 months. Resistance to moisture and **weather** varied, but all glues were vulnerable to continued stressing of the joints. There was no correlation between performance in the ' **weather** and boil-proof' test of BS 1204 and durability of glued joints exposed **outdoors** . Longitudinal shear strength of samples immersed for 48 hr in cold water, and tested after re-conditioning, was significantly correlated (0.1%) with joint strength after exposure **outdoors** . It is proposed that this cold water test be used to identify PVAc glues having adequate moisture resistance for external use (a 4 kN minimum mean strength for BS 1204 type close-contact joints is suggested). All the glues studied were unsatisfactory for structural use, or for use under continuous stress in high moisture environments. From author's summary. 6 ref.

```
File  48:SPORTDiscus 1962-2003/May
Set     Items    Description
S1        221    CATALY?
S2        267    ADHESIVE? OR SEALANT?
S3     438371    PLAYGROUND? OR SPORT? ? OR BASKETBALL OR FOOTBALL OR TENNIS
                 OR BADMINTON
S4          0    PLAYFIELD? ORPLAY???()FIELD? ?
S5      33068    ATHLETIC? ?
S6      50723    EQUIPMENT OR APPARATUS?
S7         96    BACKBOARD? ?
S8        476    PLAYFIELD? OR PLAY???()FIELD? ?
S9      14189    WEATHER OR OUTDOOR?
S10         0    S1(5N)S2
S11         0    S1 AND S2
S12       128    S2 AND S3:S9
S13        12    ELASTOMER?
S14         0    S12 AND S13
S15        35    BASKETBALL AND BACKBOARD?
S16         0    S12 AND S15
S17         0    S7 AND S12
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File 624:McGraw-Hill Publications 1985-2003/Jun 02
File 9:Business & Industry(R) Jul/1994-2003/Jun 02
File 20:Dialog Global Reporter 1997-2003/Jun 03
File 481:DELPHES Eur Bus 95-2003/May W4
File 635:Business Dateline(R) 1985-2003/May 31
File 636:Gale Group Newsletter DB(TM) 1987-2003/May 30
File 98:General Sci Abs/Full-Text 1984-2003/Apr
File 369:New Scientist 1994-2003/May W4
File 370:Science 1996-1999/Jul W3
File 484:Periodical Abs Plustext 1986-2003/May W4

Set	Items	Description
S1	177657	CATALY?
S2	56240	ADHESIVE? OR SEALANT?
S3	2357985	PLAYGROUND? OR SPORT? ? OR BASKETBALL OR FOOTBALL OR TENNIS OR BADMINTON
S4	78778	PLAYFIELD? OR PLAY???()FIELD? ?
S5	3459507	EQUIPMENT OR APPARATUS?
S6	755153	WEATHER OR OUTDOOR? ?
S7	1415	BACKBOARD? ?
S8	121	S1(5N)S2
S9	1	S3 AND S8
S10	1	S4 AND S8
S11	2	S6 AND S8
S12	0	S7 AND S8
S13	4	S9:S11
S14	**2**	**S13/2003 OR S13/2002 OR S13/2001 OR S13/2000**
S15	**2**	**S13 NOT S14 [not relevant]**
S16	3	S8(S)S5
S17	3	S16 NOT S13
S18	**3**	**RD (unique items)**

14/3,K/2 (Item 2 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2003 Resp. DB Svcs. All rts. reserv.
2763757 Supplier Number: 02763757 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Fired Up
(The hot-melt adhesives market in Europe is forecast to grow 3.7% compounded annually in 2006, when the market is expected to be worth $997 mil)
Adhesives Age, v 43, n 3, p 18+
March 2000
DOCUMENT TYPE: Journal ISSN: 0001-821X (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1585
TEXT:
...rate and maintaining melt stability had been difficult to achieve. The addition of a unique **catalyst** into **adhesives** made the difference in achieving both goals.
U.S. Automotive Adhesives Demand
Item 1989 1993...
...cure times. The data in Table 1 shows that organo metallic catalysts and a proprietary **catalyst** A in RHM **adhesives** have the same curing rate which are much faster than a catalyst-free control.
The...
...measured by the viscosity increase per hour at 250 degrees F. What makes the RHM **adhesive** with proprietary **catalyst** A unique is that it also showed excellent melt stability.

Table 2 lists the results of melt stability studies. The proprietary **catalyst** A **catalyzed** RHM **adhesive** has a viscosity increase at 230 degrees F, almost as slow as a catalyst-free...
...adhesives with either organo metallic or amine catalyst for a one-hour test. This unique **catalyzed** RHM **adhesive** also showed only very similar melt stability to the control for a 24-hour heat...
...high-moisture content and /L for low-moisture content in the legend in the figure). **Adhesives** with the proprietary **catalyst** A and substrates with higher moisture always have faster strength development. However, the curing rate...
...than the regular RHM adhesive with wet substrates. Regardless of the environment change, the proprietary **catalyzed** RHM **adhesive** always cures faster than regular RHM adhesive in any circumstance.
An analytical method for detecting the presence of the proprietary catalyst A and also to determine the amount of this **catalyst** in the RHM **adhesive** was developed. The method uses injection of product along with standard catalyst samples into a...Business Trend Analysts
One major factor involves changes in the motor vehicle product mix favoring **sport** utility vehicles (SUVs), minivans and pick-up trucks, since these larger vehicles require more adhesives...

```
File  16:Gale Group PROMT(R) 1990-2003/Jun 02
File  18:Gale Group F&S Index(R) 1988-2003/Jun 03
File 148:Gale Group Trade & Industry DB 1976-2003/May 30
File 160:Gale Group PROMT(R) 1972-1989
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Jun 02
File 649:Gale Group Newswire ASAP(TM) 2003/May 30
File 570:Gale Group MARS(R) 1984-2003/Jun 03
Set     Items   Description
S1     169076   CATALY?
S2     127215   ADHESIVE? OR SEALANT?
S3    1106718   PLAYGROUND? OR SPORT? ? OR BASKETBALL OR FOOTBALL OR TENNIS
              OR BADMINTON
S4      57721   PLAYFIELD? OR PLAY???()FIELD? ?
S5    5763761   EQUIPMENT OR APPARATUS?
S6     640559   WEATHER OR OUTDOOR? ?
S7       1409   BACKBOARD? ?
S8      37840   PC=3949
S9        346   S1(5N)S2
S10         0   S8 AND S9
S11        20   S3:S4 AND S9
S12        30   S6 AND S9
S13         0   S7 AND S9
S14        40   S11:S12
S15        28   RD (unique items)
S16        14   S15/2003 OR S15/2002 OR S15/2001 OR S15/2000
S17        14   S15 NOT S16
S18        14   Sort S17/ALL/PD,D
S19        14   S9(S)S5
S20        14   S16
S21        14   Sort S20/ALL/PD,D
S22        12   S19 NOT S14
S23        12   RD (unique items)
S24        12   Sort S23/ALL/PD,D

18/3,AB,K/1      (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
10444608     SUPPLIER NUMBER: 21101693    (USE FORMAT 7 OR 9 FOR FULL TEXT)
Silyl-terminated polyethers for sealant use: performance updates.(Industry
  Overview)
Hashimoto, K.; Imaya, K.
Adhesives Age, v41, n8, p18(5)
August, 1998
DOCUMENT TYPE: Industry Overview      ISSN: 0001-821X      LANGUAGE:
  English      RECORD TYPE: Fulltext
WORD COUNT:   1523    LINE COUNT:  00141
...     Thixotropic agent                2
     Antioxidant                         1
     UV absorber                         1
     Dehydration agent                   2
     Adhesion promoter                   3
     Hardening  catalyst                   2
     Two-part  sealant
     A part
     MS Polymer (S203H)                100
     Plasticizer                        55
     Calcium carbonate                 120
```

Titanium dioxide 8

Surface...it is important to control moisture in the sealants, because the polymer is moisture curable.

* **Weather** resistance and durability. MS sealants' good **weather** resistance is shown in Figure 6, which is the result of Emmaqua testing in Arizona. Durability can be assessed by dynamic **outdoor** exposure tests using electrically coated aluminum, which simulate the expansion and contraction of building wall...

...demonstrates the variety of substrates for which MS sealants have good adhesion.

Table IV

The **Outdoor** Exposure Test Results

Sealants	Surface of joint	Around joint
MS sealants	No change	No staining...

18/3,AB,K/5 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

08671221 SUPPLIER NUMBER: 18231706 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The effects of polyol unsaturation levels on the properties of urethane sealants.

Fishback, Thomas; Aviles, Gladys; Reichel, Curt

Rubber World, v214, n1, p21(4)

April, 1996

ISSN: 0035-9572 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2577 LINE COUNT: 00222

ABSTRACT: Alkoxide is formed when KOH is used to manufacture propylene oxide polyols. This reaction manufactures a monofunctional ether moiety which competes for propylene oxide with the polyhydric initiator. Unsaturation increases as a function of the urethane sealant's molecular weight. Unsaturation also decreases polyurethane's ability to withstand **weather** conditions.

... 4

0.020 2.77 11.7

Unsaturation also plays a role in decreasing the **weather** -ability of polyurethane. It is well known that polymers containing double bonds are highly susceptible...

...with a 1,000 mw diol (chain extender), 25% by weight talc (filler), a tin **catalyst** , and defoamer to form a **sealant** . The mixture was cured at 70(degrees)C for four hours, and then was post...

18/3,AB,K/11 (Item 11 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

01863459 Supplier Number: 42363103

NEW DOW CORNING SILICONE PSA CAN BE COATED DIRECTLY ONTO SILICONE RELEASE COATING

News Release, p1

Sept 16, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 502

... power equipment, lawn mowers and other surfaces exposed to temperature extremes or prolonged exposure to **weather** .

DOW CORNING (R) X2-7735 PSA is a peroxide **catalyzed adhesive.**

It can be used on polyester, polyimide, glass cloth,
Polytetrafluoroethylene, and other tape backings typically...

18/3,AB,K/13 (Item 13 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
05104182 SUPPLIER NUMBER: 10352381 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Silicon modified polyethers enhance construction sealants.
Timberlake, John F.
Adhesives Age, v34, n2, p26(6)
Feb, 1991
ISSN: 0001-821X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3311 LINE COUNT: 00317
... a tin catalyst that does not require an amine co-catalysts, a number of alternative **catalysts** were examined for curing these **sealants.**
To test the new **catalysts** , SMP-2 (100 parts by weight) was mixed with various tin catalysts (2 parts by...
...reasons for the differences between them and whether the differences carry through into the formulated **sealants** .
The **catalysts** UL-IIA, T-1 and UL-8 appear to be likely candidates for catalysts that...
...the other catalysts available in the United States. Care must be taken in choosing which **catalyst** to use for a formulated **sealant** , and consideration must be given to the interactions of the formulation ingredients.
Curing Rates
Silicon...
...on the ability to use sealants in all areas of the country and during most **weather** conditions. Two-part sealants can be formulated that cure to the ultimate properties within seven...9 765
1 4.4 13.4 742
4 4.5 9.7 542
(1) **Outdoor** weathering in Kobe, Japan, south facing, 45 [degrees] angle (2)Japanese Industrial Standard K 6301...
...surface and on the substrate around the sealant, and accumulating dirt. After seven years of **outdoor** exposure, the surface near the sealant formulated as in Table III looks as good as...

18/3,AB,K/14 (Item 14 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
04780409 SUPPLIER NUMBER: 09251209 (USE FORMAT 7 OR 9 FOR FULL TEXT)
SPRINT studies European adhesive applications. (Strategic Program for Innovation and Technology)
Bowtell, Maurice
Adhesives Age, v33, n8, p42(3)
July, 1990
ISSN: 0001-821X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1742 LINE COUNT: 00147
... for innovation and technology, known as SPRINT, is covering the study of new applications for **adhesives** with the aim of **catalyzing** the acceptance of **adhesives** technology by industry in Europe. The program itself, which is headed by Reseau European pour...
...project team is examining the aerospace, machine tool, offshore and shipbuilding, domestic appliance, furniture, and **sports** goods and medical

sectors in addition to the building and construction, engineering and automotive industries...

21/8/8 (Item 8 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.
13375061 SUPPLIER NUMBER: 73411496 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Balsa -- Lightweight Wood Has Variety of Uses.(Brief Article)
March, 2001
WORD COUNT: 913 LINE COUNT: 00073
INDUSTRY CODES/NAMES: BUSN Any type of business; TREE Forest Products
DESCRIPTORS: Balsa wood--Usage
GEOGRAPHIC CODES/NAMES: 1USA United States
PRODUCT/INDUSTRY NAMES: 2400000 (Wood & Wood Products)
SIC CODES: 2400 LUMBER AND WOOD PRODUCTS
NAICS CODES: 321 Wood Product Manufacturing
FILE SEGMENT: TI File 148

21/3,AB,K/7 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
14500706 SUPPLIER NUMBER: 84842612 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Sealants should fill the safety bill: Sell sealants that offer a safer, environmentally friendly way to tight-fitting joints. (Adhesives/Sealants Product Selling).(Brief Article)
Tuttle, Al
Industrial Distribution, 91, 4, 114(1)
April, 2002
DOCUMENT TYPE: Brief Article ISSN: 0019-8153 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 646 LINE COUNT: 00054
... soon be a problem to sell."
Some urethane sealants consist of two parts -- isocyanates, the **catalyst** , and polymers, the **sealant** material. Isocyanates are widely expected to be toxic, LeClere said.
"They are possible carcinogens. They...
...cellars," Gilligan said.
He added that the problem is akin to that of pressure-treated **outdoor** wood products like chairs and swing sets made using cyanide-based chemicals...
20020401

21/3,AB,K/10 (Item 10 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.
08379733 Supplier Number: 71017980
In Search of the Right Adhesive.
Harrington, Bill
Adhesives Age, v44, n1, p43
Jan, 2001
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1116
... be to use a mixing head on your spray equipment, one that mixes as the **adhesive** and **catalyst** exits the head. It's not always as efficient

a mix as that obtained by...
...use since some will provide different colorations in standard light versus fluorescent light versus natural **outdoor** light. Determine in advance where the product will be used and color match in that...
20010101

21/3,AB,K/12 (Item 12 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.
07601670 Supplier Number: 63643001
Aerospace metals demand is grounded. (Statistical Data Included)
STUNDZA, TOM
Purchasing, v129, n1, p76B28
July 13, 2000
Language: English Record Type: Fulltext
Article Type: Statistical Data Included
Document Type: Magazine/Journal; Trade
Word Count: 4125
... years, the sporting-goods industry has discovered titanium alloys as the material for golf shafts, **tennis** racquet frames, pool cue shafts, bicycle frames and eyeglass frames.
Annual use of all beryllium...8.5% for batteries. The remaining 30.7% was for such other end uses as **catalysts** and **adhesives** , Burstow says.
The aerospace sector isaand is expected to remainathe largest single end-use market...
20000713

24/8/10 (Item 10 from file: 160)
DIALOG(R)File 160:(c) 1999 The Gale Group. All rts. reserv.
01578214
DISPENSE-A-BEAD PROVIDES ACCURATE, COST-EFFECTIVE ADHESIVE DISPENSING IN ROBOTIC APPLICATIONS.
January 27, 1987
COMPANY: *Sealant Equipment & Engineering
PRODUCT: *Adhesives Application Equip (3569160)
EVENT: *Product Design & Development (33)
COUNTRY: *United States (1USA)

24/8/11 (Item 11 from file: 160)
DIALOG(R)File 160:(c) 1999 The Gale Group. All rts. reserv.
00883217
Premeasured adhesive **components, often a resin and** catalyst , **can help save personnel, time and** equipment , **according to B Lawson of Adhesive Packaging Specialties.**
March, 1983
PRODUCT: *Adhesives & Sealants (2891000)
EVENT: *Marketing Procedures (24)
COUNTRY: *United States (1USA)

24/3,AB,K/3 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
07190255 SUPPLIER NUMBER: 15147804 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Green issues driving materials and equipment. (adhesives industry)

Polifka, Walter S.
Adhesives Age, v37, n1, p17(1)
Jan, 1994
ISSN: 0001-821X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 629 LINE COUNT: 00051
TEXT:
...1993 were the increased use of moisture-cure urethane hot melts and two-component, acid- **catalyzed** contact **adhesives** in wide industrial applications. The explosive growth of moisture-cure urethane hot melt adhesives has...
...users will have to be aware that these new materials require new transfer and application **equipment** . The capitalized costs of **equipment** expenditures will be more than offset by the elimination of additional processes like curing ovens.

24/3,AB,K/4 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

03155452 Supplier Number: 44310163
OM Group Inc. - Company Report
Investext, p1-10
Dec 21, 1993
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade
ABSTRACT:
BEAR, STEARNS & CO., INC. report by Bodnar, C.M.
OM Group Inc. is a leading producer and marketer of metal-based specialty chemicals. Metal carboxylates, metal salts, and metal powders are the company's three product lines. Sales are spread over nearly 250 different products and hundreds of customers in about 15 end markets. Some end markets served include fuel additives, **catalysts** , paints, **adhesives** , batteries and drilling **equipment** . The company is a low-cost producer of value-added products, with the cyclical swings in earnings buffered by the nature of its products, approximately 50% of which are "maintenance products" required continually in production processes. Importantly, many of the company's products end up in the auto and housing markets, two of the stronger areas of the U.S. economy.
Tables in report: Stock Price, Earnings Data And Rating 1992-94; Carboxylates Uses By Industry Category; Salts Uses By Industry Category; Big 3 Model Redesigns 1994-98; Earnings And Cash Flow Multiples Vs Peer Companies 1993-94; Sales By Product 1991-95; Annual Income Statement 1991-95; Sources And Uses Of Funds 1991-95
The INVESTEXT database offers the full text of this report online (RN=1401823). To order printed copies, CALL (800)662-7878, (212)952-7060 US, (071)815-3800 UK.

24/3,AB,K/5 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

05912090 SUPPLIER NUMBER: 12410793 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Production update: solventless lamination answers green challenges. (lamination as converting process and environmental concerns)
Nard, Wallace D.
Paper, Film and Foil CONVERTER, v66, n4, p48(3)
April, 1992

ISSN: 0031-1138 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2247 LINE COUNT: 00187
TEXT:

...Because the adhesives for solventless are different, they require a specific coating head, specialized auxiliary **equipment** around the machine and a knowledge of reaction chemistries and handling considerations. Solventfree adhesives are...

...to converter acceptance of solventless adhesives because the lower green tack necessitates a change in **equipment** and handling procedures for laminations. With some **catalytic** waterborne **adhesives** , full cure times can be extended. This, with shorter pan life of adhesives, can dictate...

...web upset and tension variations. In addition to the laminator, solventfree lamination requires other specialized **equipment** , including: a special pump, known as a meter/mix/dispense unit, for the supply and...

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200334
File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	420613	CATALY?
S2	559052	ADHESIVE? OR SEALANT?
S3	121665	PLAYGROUND? OR SPORT? ? OR BASKETBALL OR FOOTBALL OR TENNIS OR BADMINTON
S4	1295	PLAYFIELD? OR PLAY???()FIELD? ?
S5	2723540	EQUIPMENT OR APPARATUS?
S6	105049	WEATHER OR OUTDOOR? ?
S7	1716	BACKBOARD? ?
S8	1186	S1(5N)S2
S9	**2**	**S3:S4 AND S8**
S10	**17**	**S6 AND S8**
S11	0	S7 AND S8

9/7/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011617024
WPI Acc No: 1998-034152/199804

Ground covering for sports fields, equestrian grounds etc. - comprises layer of material consisting of metal-free granules of recycled rubber and plastics mixed with vaseline or glycerol additive

Patent Assignee: MULLER R (MULL-I)
Inventor: MULLER R
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 19723530	A1	19971211	DE 1023530	A	19970605	199804	B
FR 2749594	A1	19971212	FR 967014	A	19960606	199806	
FR 2749595	A1	19971212	FR 977082	A	19970604	199806	

Priority Applications (No Type Date): FR 967014 A 19960606
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19723530	A1		3	C08L-095/00	
FR 2749594	A1			E01C-013/06	
FR 2749595	A1			E01C-013/06	

Abstract (Basic): DE 19723530 A

Ground covering made of rubber and/or plastic granules mixed with other materials, e.g. for **sports** fields, **playing fields** , equestrian **sports** grounds etc., in which: (i) the granules consist of recycled rubber and plastics which are free from all ferrous and non-ferrous metals; and (ii) the granules are mixed with at least one vaseline or glycerol additive.

Preferably the mixture may be bonded cold or hot with a bitumen emulsion, and may contain sand and silica with a particle size of 0.2-0.9, and/or a film-forming binder based on styrene, acrylic resin or latex, and/or top soil. The mixture may also contain **catalysts** and/or a polyurethane **adhesive** . The percentage contents of the recycled rubber/plastics and other additives are determined by the technical requirements of the material to be produced and its intended application.

ADVANTAGE - A low-cost, dust-free ground covering material based on recycled materials, with very low maintenance costs, good stability and very good frost resistance. The material also complies with European

and international environmental protection standards.
Dwg.0/0
Derwent Class: A93; Q41
International Patent Class (Main): C08L-095/00; E01C-013/06
International Patent Class (Additional): E01C-013/00

9/7/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
008816283
WPI Acc No: 1991-320296/199144
Sheet of rubber-chip flat plate block for pavement - obtd. by mixing pigment, catalyst , polyurethane resin adhesive and additives with rubber chips, casting in mould and drying
Patent Assignee: MOTOHAMA KK (MOTO-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 3212501	A	19910918	JP 908989	A	19900117	199144	B

Priority Applications (No Type Date): JP 908989 A 19900117
Abstract (Basic): JP 3212501 A
Sheeted rubber-chip flat plate block is obtd. by mixing mixt. of pigment, **catalyst** , urethane resin **adhesive** , and additives with rubber chips, casting into moulds, and drying to form sheeted rubber-chip flat plate, and flat plate is punched into pref. shape of blocks which are then bevelled at peripheral sides by whetstone grinder and joined with each other for pavement, etc.
USE/ADVANTAGE - Simply produces sheeted rubber-chip flat plate blocks for pavement of **sports** ground, etc. with good wear resistance, good flame retardancy, and high durability at low cost on mass prodn. basis. (4pp Dwg.No.0/4)
Derwent Class: A35; A93; Q41
International Patent Class (Additional): E01C-005/18

10/26,TI/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
014426543
WPI Acc No: 2002-247246/200230
Colored photocatalyst-supported structure for forming colored photocatalyst-supported structure is formed by laying up adhesive **layer and** photocatalyst **layer on surface of base material**

10/26,TI/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
012967596
WPI Acc No: 2000-139445/200013
Photocatalytic composite material for preventing water droplet formation on glass panes, machinery, goods, lens, mirror, etc - consists of surface layer containing photocatalyst material and inorganic substance formed on base material surface through adhesive layer

10/26,TI/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
012580177
WPI Acc No: 1999-386284/199933
Brick and tile additive production - from shrinking and dewatering agent, drying accelerator, adhesive , **low-temperature co-fusing agent,** catalyst , **sintering agent and desulphurising agent**

10/7,K/12 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
010046210 **Image available**
WPI Acc No: 1994-313921/199439
Coating compsn. for metals, wood, cement, etc. - contains silicate oligomer, hydroxy(meth), acrylate-vinyl, gp.-contg. hydrolysable silyl cpd. -(meth)acrylate copolymer, of organic solvent and curing catalyst **transparent,** adhesive , weather , **heat-and scuff-resistant coating**
Patent Assignee: MITSUBISHI KASEI CORP (MITU)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 6240199	A	19940830	JP 9325182	A	19930215	199439	B

Priority Applications (No Type Date): JP 9325182 A 19930215
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6240199	A		5	C09D-133/06	

Abstract (Basic): JP 6240199 A

A coating contains silicate oligomer(A) of formula (I), hydroxy(meth)acrylate/vinyl gp. contg. hydrolysable silyl cpd./(meth) acrylate copolymer(B), organic solvent(C) and curing catalyst(D). In formula (I), n = 1-20 and R = CH3, C2H5, C4H9 or C6H5.$

(B) is copolymer obtd. from a mixt. of 10-50 pts. wt. of at least ne methacrylate(B1), 10-70 pts. wt. of at least one acrylate(B2), 1-20 pts. wt. of at least one hydroxy (meth)acrylate(B3) and 1-20 pts. wt. of at least one hydrolysable silyl gp. contg. cpd.(B4).$

Examples of (A) are prods. obtd. by hydrolysing 50-60% of tetramethoxy(ethoxy, propoxy, butoxy, phenoxy) silane. Examples of (B1) are methyl(ethyl, butyl, lauryl) methacrylate. Examples of (B2) are methyl(ethyl, butyl, lauryl) acrylate. Examples of (B3) are 2-hydroxyethyl(propyl) (meth)acrylate. Examples of (B4) are vinyltrimethoxy(ethoxy) silane, gamma-methacryloxypropyltrimethoxysilane. (B) has pref. a glass transition temp. of -20 to +40C. (C) may be selected from alcohols, glycol derivs. hydrocarbons, esters, ketones and ethers. Examples of (D) are inorganic acids organic acids, and organic tin oxides. A suitable (A)/(b)/(C) wt. ratio is 50-100/100/100-1000. A suitable coating thickness is 0.1-200(0.1-100) microns.$

USE/ADVANTAGE - The coating compsn. is suitable for coating metals like steel, stainless steel and Al, plastics, wood, cementaceous prods. and other prods.. The obtd. coating films are excellent in transparency, adhesion and resistance to heat, **weathering** and scuffing.

Dwg.0/2

Derwent Class: A14; A26; A82; E11; G02; L02; M13
International Patent Class (Main): C09D-133/06
International Patent Class (Additional): C09D-183/06; C09D-133/06;

C09D-133-14; C09D-143-04

10/7,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009330876 **Image available**
WPI Acc No: 1993-024339/199303
Room temp. setting silicon rubber compsn. for use as sealant - contg. organopolysiloxane, organic silicon cpd. and a curing catalyst **, having good** adhesiveness **and** weather **resistance, etc.**
Patent Assignee: SHINETSU CHEM IND CO LTD (SHIE); SHINETSU CHEM CO LTD (SHIE)
Inventor: INOUE Y
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 4353567	A	19921208	JP 91153681	A	19910530	199303	B
US 5254657	A	19931019	US 92891122	A	19920601	199343	
JP 2669191	B2	19971027	JP 91153681	A	19910530	199748	

Priority Applications (No Type Date): JP 91153681 A 19910530; JP 91160074 A 19910603
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 4353567	A		7	C08L-083/08	
US 5254657	A		7	C08G-077/08	
JP 2669191	B2		6	C08L-083/08	Previous Publ. patent JP 4353567

Abstract (Basic): JP 4353567 A

The compsn. contains: (A) organopolysiloxane contg. one or more amino gps. of formula -R1NH2 (where R1 is 1-20C opt. substd. divalent hydrocarbon or divalent organic gp. contg. ether bond or -NH- bond) having a viscosity of 25-500000 cst at 25 deg.C; (B) an organic silicone cpd. of formula OCNR2SiR3aX3-a (I); and (C) a curing catalyst. In (I), R2 is as R1; R3 is 1-10C opt. substd. hydrocarbon; X is alkoxy, ketoxime, alkenyloxy or acyloxy; and a is 0 or 1.

(B) is added in such an amt. that the molar ratio of the isocyanate gp. in (B) to the amino gp. in (A) is 0.1 or more, pref. 0.1-5. The amt. of (C) added is 0.01-10, pref. 0.1-5 pts.wt., based on 100 pts.wt. (A).

USE/ADVANTAGE - The silicone rubber compsn. is suitable as a sealant for building, adhesion fixing or coating of electrical parts, electronic parts, sealing or adhesive for engine parts of car, etc. The rubber compsn. has good room setting properties, thermoresistance, **weather** resistance and adhesiveness.

In an example, polymer A of formula (2) was synthesised by reacting 248g of a cpd. of formula (1), 444g octamethyltetrasiloxane and 300 ppm of tetrabutylphosphonium hydroxide in a N2 atmos. at 120 deg.C for 3 hrs. and then at 170 deg.C for 30 mins. The polymer had a viscosity of 30000 cp and a refractive index of 1.401. A compsn. was prepd. from 100 pts.wt. of the polymer obtd. above, 1.1 pts.wt. of a cpd. of formula NCOC4H9Si(OC2H5)2, 5 pts.wt. of methyl trimethoxysilane, 10 pts.wt. of `Aerosil R972' (RTM) and 1 pt.wt. of tetrapropyltitanate. The compsn. was applied on a sheet 2mm thick, and stored at 20 deg.C at 55% RH for 7 days. The cured matter had a hardness of 30 according to Japanese Industrial Standard-A, an elongation of 300% and a tensile strength of 29 kgf/cm2.

Dwg.0/0

Abstract (Equivalent): US 5254657 A

The room temp. vulcanisable silicone rubber compsn. comprises (A) an organopolysiloxane of formula (I); (B) an organic silicon cpd. of formula (II) or (III); and (C) 0.01-10 pts. wt. w.r.t. 100 pts. wt. of (A), of a curing catalyst. Pref. molar ratio of isocyanate gp. in (B) to amino gp. in (A) is 0.1 or more.

In the formula R1 is (un)substd. 1-20C divalent hydrocarbon or a divalent 1-20C organic gp. and contg. an ether bond or -NH-bond; R4 and R5 are (un)substd. monovalent 1-20C hydrocarbon; m is 5 or more; R6 is (un)substd. monovalent 1-20C hydrocarbon.

USE - Adhesives, sealants, electronic parts, etc. are prepd. from the silicone rubber compsn.

(Dwg.0/0)

Derwent Class: A26; A81; A82; A85; G02; G03; L03
International Patent Class (Main): C08G-077/08; C08L-083/08
International Patent Class (Additional): C08G-077/388; C08K-005/54

10/7,K/14 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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008894264
WPI Acc No: 1992-021533/199203

Alpha, beta-unsatd. dicarboxylic acid diaryl ester prepn. - comprises reacting dicarboxylic acid(s) with aryl alcohol(s) in presence of phosphorus cpd(s). and boron cpd. catalyst , **for** adhesives , **etc.**

Patent Assignee: NIPPON SHOKUBAI CO LTD (JAPC)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 3271253	A	19911203	JP 9071122	A	19900320	199203	B

Priority Applications (No Type Date): JP 9071122 A 19900320
Abstract (Basic): JP 3271253 A

Prepn. of alpha, beta-unsated, dicarboxylic acid aryl ester(s) (I) comprises reaction of alpha, beta-unsatd dicarboxylic acid (s) (II) or its anhydride(s) (III) with aryl alcohol(s) (IV) in the presence of inorganic P compd(s) (V) and B cpd(s) (VI). (II) (pref. maleic acid) or (III) is reacted with 0.5-5 mol-fold (IV) in the presence of (V) (pref. phosphorus pentoxide, 20-40% to (II) or (III)) and (VI)(pref. boric acid, boron trioxide, 10-20 wt% to (II) or (III)) at 0-200 deg C. (pref. 30-180 deg C) in suitable solvent (e.g. aliphatic-or aromatic-hydrocarbon(s)). Polymerisation inhibitor(s) (e.g. hydroquinone, p-phenylenediamine etc) may be added to reaction mixt. if required.

USE/ADVANTAGE- (I) is useful as plasticisers, adhesives, modifiers to give **weather** -resistance or as material, to prepare bio-active cpds etc., High purity (90%) (I) is prepd by present procedure in higher yield (71%) than prior arts (at most 28%).(5pp Dwg.No. 0/0)

Derwent Class: A60; B05; E14; G02
International Patent Class (Additional): B01J-027/16; C07B-061/00; C07C-067/08; C07C-069/59

10/7,K/15 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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008608689

WPI Acc No: 1991-112719/199116
Polysiloxane coating compsn. - comprises specific polysiloxane, polyepoxy contained cpd. and curing catalyst **, has good** adhesive **strength, acid alkali and abrasion-resistance**
Patent Assignee: DAINIPPON TORYO KK (DNTO)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 3052977	A	19910307	JP 89187059	A	19890719	199116	B
JP 95086184	B2	19950920	JP 89187059	A	19890719	199542	

Priority Applications (No Type Date): JP 89187059 A 19890719
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 95086184	B2		5	C09D-183/06	Based on patent JP 3052977

Abstract (Basic): JP 3052977 A

New polysiloxane coating compsn. consists of (a) polysiloxane soln. prepd. by hydrolysis and partial condensn. of mixt. consisting of (1) 100 pts. wt. silane cpds. of formula RSi(OR1)3 (I), (2) 0-40 pts. wt. silane cpds.of formula R2Si(OR1)2 (II), and (3) 5-40 pts. wt. solid hydrophilic organic solvent soln. of coloidal silica, with acid soln.; (b) epoxy contained cpds. in an amt. to adjust (a) to pH 5-7; and (c) curing catalyst. In (I), R = 1-8C organics, and R' = 1-5C organics. In (II), R = 1-8C organics and organics.

Component (b) is epichlorohydrin or propylene-oxide. Cpds. of (I) are e.g, methyltrimethoxysilane, and methyltriethoxysilane. Cpds. of (II) are e.g, dimethyldiethoxysilane, and dimethyldimeth-oxysilane. Curing catalysts are e.g, octanoate, naphthenate, and acetate of Ca, Fe, Co, Zn, Al, and Sn. Organic solvent used for component (3) is e.g, isopropanol.

USE/ADVANTAGE - New coating compsn. is applied to e.g, metals, ceramics, woods, glass, paper, and plastics. New coating compsn. gives coated film with excellent adhesive strength, acid resistance, alkaline resistance, **weather** durability, water resistance, abrasion resistance, and transparency.

Dwg.0/0

Derwent Class: A26; A82; G02; L01; M13
International Patent Class (Main): C09D-183/06
International Patent Class (Additional): C08G-077/04; C09D-183/04

10/7,K/16 (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX

007774169
WPI Acc No: 1989-039281/198905
Titanium- catalysed **, one-part moisture-curable silicone** sealant **- contg. mixt. of specified amino- and epoxy-silane(s) (pref. pre-reacted) to improve adhesion to wide range of substrates**
Patent Assignee: DOW CORNING CORP (DOWO)
Inventor: DIETLEIN J E; KLOSOWSKI J M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4797446	A	19890110	US 88149252	A	19880128	198905	B

Priority Applications (No Type Date): US 88149252 A 19880128; US 85787587 A 19851015; US 87508 A 19870105
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 4797446 A 9
Abstract (Basic): US 4797446 A

A novel compsn. useful as a one-part silicone sealant which is curable on exposure to moisture comprises (A) 100 pts. wt. OH- or alkoxy-endblocked polydiorgano-siloxane of viscosity 1-100 (pref. 40-60) Pa.s. at 25 deg.C (esp. a trialkoxysilylethylene-ended polydimethylsiloxane); (B) 0.35-90 (pref. 4-8) pts. wt. alkyltrialkoxysilane of formula RSi(OR')3 (R is 1-4C hydrocarbyl and R' is alkyl or alkoxyalkyl), esp. methyltrimethoxysilane; (C) 0.5-5.0 pts. wt. titanium catalyst such that there is 0.05-0.94 pts. Ti; (D) 0-250 (pref. 10-200) pts. wt. filler; (E) 3-(2-aminoethylamino)propyltrimethoxy silane (I) in such amt. that there is 0.1-1.0 (pref. 0.1-0.75) mol. per mol. of Ti in (C) and (MeO)3Si-((CH2)3-NH-(CH2)2-NH2 (I), (F) glycidoxypropyl trimethoxysilane (II) in such amt. that there is at least 25 mol.% based on amt. of (E) and less than 5 wt.% based on (A).

USE/ADVANTAGE - The compsn. is useful e.g. in walls where it is necessary to give reliable sealing of the joints between reflective glass panels on **weather - proofed** metal supports. Addn. of (E) and (F) gives a sealant having improved adhesion to a wide range of substrates without corrosion of the substrate (e.g. to glass, Al or concrete).

Dwg.0/0

Derwent Class: A26; A81; A93; G03; G04
International Patent Class (Additional): C08L-083/04

10/7,K/17 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

06198845 **Image available**
ADHESIVE SHEET
PUB. NO.: 11-140400 [JP 11140400 A]
PUBLISHED: May 25, 1999 (19990525)
INVENTOR(s): MURAYAMA HIROSHI
MIYAKE TOSHIYUKI
APPLICANT(s): SEKISUI CHEM CO LTD
APPL. NO.: 09-328488 [JP 97328488]
FILED: November 28, 1997 (19971128)
PRIORITY: 09242796 [JP 979242796], JP (Japan), September 08, 1997 (19970908)

ABSTRACT

PROBLEM TO BE SOLVED: To obtain an adhesive sheet which is free from undulation, shear, shrinkage, and discoloration even when stuck to a stainless steel sheet and used **outdoors** , does not undergo the change in color of an adhesive, and is easily applied by forming a pressure-sensitive adhesive layer comprising an acrylic adhesive and a chelating agent on one side of a synthetic resin sheet.
SOLUTION: This adhesive sheet is prepd. by forming an 30-100 μm-thick adhesive layer comprising 100 pts.wt. acrylic base polymer formed mainly from an alkyl (meth)acrylate having a 4-12C alkyl group and 1.5-23 pts.wt. chelating agent on one side of a 50-200 μm-thick synthetic resin sheet made of a vinyl chloride resin, a fluororesin, etc. Phosphite-base antioxidants, such as represented by formulas I (wherein R is 12-14C alkyl), II and III are esp. pref. as the chelating agents, which retard the degradation of the **adhesive** caused by the **catalytic** action of the metal

elements, Cr, Mn and Ni, contained in stainless steel.
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10/7,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015105504
WPI Acc No: 2003-166021/200316
Production of sealant for substrates e.g. window sealant, involves contacting polymer comprising vinyl and/or (meth)acrylate monomer, silane comonomer(s), polymer capping agent(s), catalyst and reactive diluent
Patent Assignee: BARRON L R (BARR-I); DAMSCHRODER B L (DAMS-I); MAFOTI R (MAFO-I)
Inventor: BARRON L R; DAMSCHRODER B L; MAFOTI R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020156174	A1	20021024	US 99363417	A	19990729	200316 B
			US 200287185	A	20020228	

Priority Applications (No Type Date): US 200287185 A 20020228; US 99363417 A 19990729
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020156174	A1		9	C08F-004/06	CIP of application US 99363417 CIP of patent US 6414077

Abstract (Basic): US 20020156174 A1

NOVELTY - A sealant is produced by contacting a polymer comprising vinyl and/or (meth)acrylate monomer, silane comonomer(s), polymer capping agent(s), a catalyst and a reactive diluent in a reactor.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the sealant composition produced using the inventive method.

USE - For production of sealant, e.g. window sealant, used as pressure-sensitive adhesive, water-proofing agent, casting rubber material and foaming material for substrates. For use in window creation and packaging and as bedding sealant in the formation of large and small windows.

ADVANTAGE - The sealant composition is curable by atmospheric moisture and forms a resilient seal at ambient temperatures. The sealant has improved viscosity, adhesive qualities, and remains stable in the warm form and minimum amount of undesirable solvent. The sealant enables re-setting of a substrate if necessary. Upon cooling, the sealant may cure upon exposure to atmospheric moisture to form a non-thermoplastic highly elastic and adhesive sealant. The green strength of the sealant is also improved over existing compositions from the perspective of handling and transporting windows after assembly. A window sealant with improved cured time, shear strength and the rate of strength development is obtained. The sealant displays superior **weather** resistance, high tensile strength and elongation. The sealant readily accepts paint and displays improved characteristics, good balance between breaking strength, elongation and glass transition temperature, long storage life, improved applications during manufacturing, bond strength particularly a good balance between peeling bond strength and shearing bond strength. The sealant may be applied readily to horizontal or vertical joints and exhibits tough resilient conditions upon curing. A seal having good resistance to aging by ultraviolet rays, heat and moisture and resilience and

extensibility in the joint is provided. The sealant composition is flowable such that a single application may be used on the window and requires no curative agents other than atmospheric moisture. If kept protected from water or moisture, consistency of the sealant remains the same until exposed to humid conditions. The sealant composition generally cures within a short period of time to the atmospheric moisture.

pp; 9 DwgNo 0/0

Derwent Class: A14; A26; A93; G04
International Patent Class (Main): C08F-004/06
International Patent Class (Additional): C08J-003/00; C08K-003/34

10/7,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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014619570
WPI Acc No: 2002-440274/200247

Cold-setting sealant compositions contain acrylic acid ester copolymer and filler

Patent Assignee: TOA GOSEI CHEM IND LTD (TOAG)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2002097449	A	20020402	JP 2000291348	A	20000926	200247	B

Priority Applications (No Type Date): JP 2000291348 A 20000926
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002097449	A		7	C09K-003/10	

Abstract (Basic): JP 2002097449 A

NOVELTY - A sealant composition contains (a) an acrylic acid ester copolymer consisting mainly of acrylic acid ester monomer units containing acrylic acid ester monomer units with a cyclohexyl structure in the ester portion (5-50 mass% per total building units) and bearing a reactive group reactive to a crosslinker or a self-crosslinkable reactive group and (b) a filler.

USE - No uses are given.

ADVANTAGE - The sealant compositions have excellent **weather** and stain resistance and water-resistant adhesion properties.

pp; 7 DwgNo 0/0

Derwent Class: A93; G04
International Patent Class (Main): C09K-003/10
International Patent Class (Additional): C08F-220/18; C08K-003/00; C08L-033/08
Technology Focus:

... preferably contains 100 mass parts of (a) and 10-300 mass parts of (b). The **sealant** composition optionally contains a **catalyst** accelerating crosslinking reaction.

10/7,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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013559377
WPI Acc No: 2001-043584/200106

Two-pack polyurethane adhesive compositions with good adhesion performance and adhesion durability suitable for lamination adhesion

between polyester films and fluorine resin films
Patent Assignee: SANYO CHEM IND LTD (SANN)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 2000290630 A 20001017 JP 9997453 A 19990405 200106 B
Priority Applications (No Type Date): JP 9997453 A 19990405
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2000290630 A 7 C09J-175/04
Abstract (Basic): JP 2000290630 A

NOVELTY - A two-pack polyurethane adhesive composition comprises: (A) an isocyanato-terminated urethane prepolymer prepared from (a1) a macromolecular polymer and (a2) an excessive aliphatic and/or alicyclic polyisocyanate; (B) a curative consisting of (b1) a polydiene polyol and/or (b2) its hydroxyl-terminated derivative; and (C) an organic solvent.

DETAILED DESCRIPTION - The macromolecular polymer (a1) has a number average molecular weight of 800-3,500. (b1) has a number average molecular weight of 1,000-3 500.

An INDEPENDENT CLAIM is also included for adhesive compositions for lamination adhesion.

USE - The polyurethane adhesive compositions are useful for lamination adhesion between polyester films or sheets and films or sheets of fluorine resin, polyester, polypropylene, polyethylene and PVC, especially between polyester films and fluorine films to give laminates useful for solar batteries and also between various plastic films and Far's or metal foils, and as adhesives for building materials requiring design properties and electromagnetic wave shielding in electric and electronic fields.

ADVANTAGE - The polyurethane adhesive compositions have good adhesion properties, moisture, heat and **weather** resistance, and adhesion durability.

pp; 7 DwgNo 0/0

Derwent Class: A23; A81; G03; P73
International Patent Class (Main): C09J-175/04
International Patent Class (Additional): B32B-007/02; B32B-007/12; B32B-027/36; C08G-018/10; C08G-018/48; C08G-018/69
Technology Focus:
... an equivalent ratio of NCO in (A)/OH in (B) of 0.5-3. The **adhesive** composition optionally contains (D) a **catalyst** .

10/7,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013286453
WPI Acc No: 2000-458388/200040
Manufacture of photocatalyst in building material or outdoor **use involves coating surface of polymeric resin base material by photocatalyst and reheating dried coat layer at specific temperature.**
Patent Assignee: NIPPON SODA CO (NIPS); TAIYO KOGYO KK (TAIA)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 2000170078 A 20000620 JP 98348157 A 19981208 200040 B
Priority Applications (No Type Date): JP 98348157 A 19981208

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2000170078 A 7 D06M-015/643
Abstract (Basic): JP 2000170078 A
NOVELTY - Manufacture of photocatalyst involves coating a photocatalyst on surface of a polymeric resin base material and drying the coated layer. Reheating of photocatalytic layer is carried out at a temperature greater than drying temperature and less than 800 degrees C.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the photocatalyst.
USE - For manufacture of photocatalyst for building materials and **outdoor** use.
ADVANTAGE - The photocatalyst has high deodorization, sterilization and dirt resistance.
pp; 7 DwgNo 0/0
Derwent Class: A97; F06; J04; P73
International Patent Class (Main): D06M-015/643
International Patent Class (Additional): B01J-035/02; B01J-035/06; B32B-027/04; D06M-011/46
Technology Focus:
... is applied on a intermediate layer. A photocatalyst is applied on the surface of the **adhesive** layer to form **photocatalytic** layer...
Extension Abstract:
... with a surfactant. A surfactant dispersed with nitric acid, titania sol was applied as a **photocatalytic** liquid on the **adhesive** layer and dried at 30-60 degrees C to form a photocatalyst and reheated by...

File 348:EUROPEAN PATENTS 1978-2003/May W04
File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

Set	Items	Description
S1	189207	CATALY?
S2	158813	ADHESIVE? OR SEALANT?
S3	24545	PLAYGROUND? OR SPORT? ? OR BASKETBALL OR FOOTBALL OR TENNIS OR BADMINTON
S4	824	PLAYFIELD? OR PLAY???()FIELD? ?
S5	638287	EQUIPMENT OR APPARATUS?
S6	36690	WEATHER OR OUTDOOR? ?
S7	351	BACKBOARD? ?
S8	1194	S1(5N)S2
S9	1	S3:S4(S)S8
S10	0	S7(S)S8
S11	11	S6(S)S8
S12	**12**	**S9 OR S11**
S13	7	S8(10N)S5
S14	**7**	**S13 NOT S12**

12/6/2 (Item 2 from file: 348)
01338982
PHOTOCATALYST-CARRYING TENT CLOTH CANVAS AND PRODUCTION METHOD THEREFOR

12/6/6 (Item 6 from file: 348)
00295970
Process for the production of poly-isocyanates containing allophanate groups.

12/6/12 (Item 5 from file: 349)
00154135 **Image available**
LAMINATED TAPE AND USE THEREOF

12/3,AB,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01409805
CURABLE COMPOSITION AND USES THEREOF
HARTBARE ZUSAMMENSETZUNG UND DEREN VERWENDUNGEN
COMPOSITION DURCISSABLE ET UTILISATIONS CORRESPONDANTES
PATENT ASSIGNEE:
Mitsui Chemicals, Inc., (213645), 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-6070, (JP), (Applicant designated States: all)
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SEKINE, Michio, c/o MITSUI CHEMICALS, INC., 1190, Kasamacho, Sakae-ku, Yokohama-shi, Kanagawa 247-0006, (JP)
LEGAL REPRESENTATIVE:
HOFFMANN EITLE (101512), Patent- und Rechtsanwalte Arabellastrasse 4, 81925 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1304354 A1 030423 (Basic)
WO 2002008333 020131
APPLICATION (CC, No, Date): EP 2001951995 010724; WO 2001JP6375 010724
PRIORITY (CC, No, Date): JP 2000224004 000725; JP 2000224005 000725; JP 2000224006 000725; JP 2000224007 000725; JP 2000224008 000725; JP 2000224009 000725; JP 2000224010 000725; JP 2000224011 000725; JP 2000224072 000725; JP 2000224073 000725; JP 2000224074 000725; JP 2000224075 000725; JP 2000224076 000725; JP 2000224077 000725; JP 2000224078 000725; JP 2000224224 000725; JP 2000224225 000725; JP 2000224228 000725; JP 2000229035 000725; JP 2000229037 000725; JP 2000229038 000725; JP 2000229039 000725; JP 2000229040 000725; JP 2000229042 000725; JP 2000229043 000725
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: C08L-047/00; C08F-236/20; C08F-230/08
ABSTRACT EP 1304354 A1

The curable composition of the present invention contains (A1) a silyl-containing ethylene/(alpha)-olefin/non-conjugated polyene random copolymer rubber which has a structural unit derived from a norbornene compound as the non-conjugated polyene with at least one specific vinyl group at the terminal and contains a specific hydrolyzable silyl group, and (B) a compound, other than the rubber (A1), having a hydroxyl group and/or a hydrolyzable group, e.g., (B1) a compound having a silanol group and/or a compound which can react with moisture to form a compound having a silanol group in the molecule.

This compound improves elongation of the cured product and residual surface tackiness, and, at the same time, is high in curing speed and capable of giving the cured product of high resistance to weather. It is suitable for, e.g., adhesives, tackifiers, paints, sealants, waterproof materials, spray materials, shaping materials and casting rubber materials.

ABSTRACT WORD COUNT: 145
LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200317	11053
SPEC A	(English)	200317	106904
Total word count - document A			117957
Total word count - document B			0
Total word count - documents A + B			117957

...SPECIFICATION or light-caused deterioration, can give a cured product excellent in resistance to heat and lweather , and gas-barrier property. The saturated hydrocarbon-based polymer, therefore, can find uses, e.g.,

sealant for laminated glass and elastic **sealant** for buildings.

A silanol condensing **catalyst** can be used for crosslinking/curing a polymer having a reactive silicon group. Use of...of the resin composition product. On the other hand, an excessively high content of the **catalyst** is also undesirable, because it may deteriorate the tensile-related characteristics of the cured product...of the present invention exhibits excellent characteristics with respect to curing speed and resistance to **weather** , which is mainly derived from the ethylene/(alpha)-olefin/non-conjugated polyene random copolymer rubber... ...S) below the above range, the curable composition of the present invention may have deteriorated **weather** -resistant adhesion to glass and other objects. The content exceeding the above range is disadvantageous ...the present invention, limited effects on curing speed of the rubber composition, good resistance to **weather** of the cured product, and cheapness.

The plasticizer may be used in place of the...

12/3,AB,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

01330769

OLEFIN BLOCK COPOLYMERS, PRODUCTION PROCESSES OF THE SAME AND USE THEREOF
OLEFINBLOCKCOPOLYMERE, HERSTELLUNGSVERFAHREN DERSELBEN UND IHRE ANWENDUNG
COPOLYMERES BLOCS D'OLEFINE, PROCEDES DE FABRICATION ET UTILISATION

PATENT ASSIGNEE:
Mitsui Chemicals, Inc., (213645), 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-6070, (JP), (Applicant designated States: all)

INVENTOR:
OTA, Seiji, c/o MITSUI CHEMICALS, INC., 6-1-2, Waki, Waki-cho, Kuga-gun, Yamaguchi 740-0061, (JP)
MORIYA, Satoru, c/o MITSUI CHEMICALS, INC. 3, Chigusa-Kaigan, Ichihara-shi, Chiba 299-0108, (JP)
MORI, Ryoji, c/o MITSUI CHEMICALS, INC. 6-1-2, Waki, Waki-cho, Kuga-gun, Yamaguchi 740-0061, (JP)
KODA, Taku, c/o MITSUI CHEMICALS, INC. 6-1-2, Waki, Waki-cho, Kuga-gun, Yamaguchi 740-0061, (JP)
TAN, Junji, c/o MITSUI CHEMICALS, INC. 6-1-2, Waki, Waki-cho, Kuga-gun, Yamaguchi 740-0061, (JP)
KOJOH, Shinichi, c/o MITSUI CHEMICALS, INC. 580-32, Nagaura, Sodegaura-shi, Chiba 299-0265, (JP)
KANEKO, Hideyuki, c/o MITSUI CHEMICALS, INC. 580-32, Nagaura, Sodegaura-shi, Chiba 299-0265, (JP)
HAMA, Shunichi, 3-8-1-106, Makuharihongo, Hanamigawa-ku, Chiba-shi, Chiba 262-0033, (JP)
NOBORI, Tadahito, c/o MITSUI CHEMICALS, INC. 580-32, Nagaura, Sodegaura-shi, Chiba 299-0265, (JP)
MATSUGI, Tomoaki, c/o MITSUI CHEMICALS, INC. 580-32, Nagaura, Sodegaura-shi, Chiba 299-0265, (JP)
KASHIWA, Norio, c/o MITSUI CHEMICALS, INC. 580-32, Nagaura, Sodegaura-shi, Chiba 299-0265, (JP)

LEGAL REPRESENTATIVE:
HOFFMANN - EITLE (101511), Patent- und Rechtsanwalte Arabellastrasse 4, 81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1275670 A1 030115 (Basic)
WO 2001053369 010726

APPLICATION (CC, No, Date): EP 2001942647 010118; WO 2001JP298 010118

PRIORITY (CC, No, Date): JP 200017848 000121; JP 200017849 000121; JP 200017850 000121; JP 200018053 000125; JP 200018054 000125; JP 200023333 000127; JP 200024736 000128; JP 200024737 000128; JP 200028924 000201; JP 200028925 000201; JP 200028926 000201; JP 200090716 000327; JP 2000111900 000407; JP 2000132859 000427; JP 2000147500 000515; JP 2000166470 000531; JP 2000288181 000922
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: C08F-293/00; C08G-081/00; C08L-053/00; C08L-101/00
ABSTRACT EP 1275670 A1

Olefin block copolymers excellent in affinity with metal, polar resins or the like, impact resistance, mar resistance, thermal resistance, rigidity, oil resistance, transparency, antifogging properties, electrical insulation properties, breakdown voltage, application properties, low-temperature flexibility, moldability, environmental degradation properties, fluidity and/or dispersion properties; and processes for producing the block copolymers. The block copolymers are represented by the general formula (I): PO? 1 -? g1)- B1) (wherein PO1) is a segment composed of repeating units derived from C2-20)) olelin; g1) is an ester, ether, amide, imide, urethane, urea, silyl ether, or carbonyl linkage; and B1) is an unsaturated hydrocarbon or heteroatom-containing segment).

ABSTRACT WORD COUNT: 101
NOTE: Figure number on first page: NONE
LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200303	2630
SPEC A	(English)	200303	121060
Total word count - document A			123690
Total word count - document B			0
Total word count - documents A + B			123690

...SPECIFICATION from 10 to 40 wt%, preferably 3 to 10 wt% viewed in the light of **adhesiveness** , cost and moisture permeability. The melt flow rate of the copolymer (measured according to ASTM...

12/3,AB,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00948139
PHOTOCATALYTIC COATING COMPOSITION AND PHOTOCATALYST-BEARING STRUCTURE
PHOTOKATALYTISCHE UBERZUGSZUSAMMENSETZUNG UND PHOTOKATALYSATOR ENTHALTENDES SYSTEM
COMPOSITION DE REVETEMENT PHOTOCATALYTIQUE ET STRUCTURE PORTEUSE DE PHOTOCATALYSEUR
PATENT ASSIGNEE:
NIPPON SODA CO., LTD., (300140), 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-8165, (JP), (applicant designated states: AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)
INVENTOR:
KIMURA, Nobuo, Odawara Research Center, Nippon SodaCo., Ltd, 345, Takada Odawara-shi, Kanagawa 250-02, (JP)
YOSHIMOTO, Tetsuo, Odawara Research Center, Nippon Soda Co., Ltd, 345, Takada Odawara-shi, Kanagawa 250-02, (JP)
LEGAL REPRESENTATIVE:

van Westenbrugge, Andries et al (62593), Nederlandsch Octrooibureau P.O. Box 29720, 2502 LS The Hague, (NL)
PATENT (CC, No, Kind, Date): EP 866101 A1 980923 (Basic)
WO 9815600 980416
APPLICATION (CC, No, Date): EP 97943148 971007; WO 97JP3590 971007
PRIORITY (CC, No, Date): JP 96286002 961008; JP 96303608 961029
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: C09D-001/00; C09D-005/00; B01J-035/02;
ABSTRACT EP 866101 A1

The present invention relates to photocatalyst-carrying structures which can be used particularly in an environment of high temperature and humidity or **outdoor** environment requiring alkali resistance and also to composites of photocatalyst coating materials to produce the said structures. The composites of photocatalyst coating materials are characterized in containing a photocatalyst and a zirconium compound and/or tin compound in order to endow alkali resistance. The **photocatalyst** -carrying structure has an **adhesive** layer between a **photocatalyst** layer and a carrier. The photocatalyst layer contains a photocatalyst, and a zirconium compound and/or tin compound to endow alkali resistance.

ABSTRACT WORD COUNT: 96
LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9839	1365
SPEC A	(English)	9839	9463
Total word count - document A			10828
Total word count - document B			0
Total word count - documents A + B			10828

...ABSTRACT structures which can be used particularly in an environment of high temperature and humidity or **outdoor** environment requiring alkali resistance and also to composites of photocatalyst coating materials to produce the...
...and a zirconium compound and/or tin compound in order to endow alkali resistance. The **photocatalyst** -carrying structure has an **adhesive** layer between a **photocatalyst** layer and a carrier. The photocatalyst layer contains a photocatalyst, and a zirconium compound and...
...SPECIFICATION on a substrate used. An adhesive layer can be set between the substrate and the **photocatalyst** layer. With the **adhesive** layer, a **photocatalyst** -carrying structure can be produced with excellent **adhesiveness** and high **photocatalytic** activity as well as excellent durability so as to be used **outdoors** . In particular, a **photocatalyst** -carrying structure with both excellent **adhesiveness** and high **photocatalytic** activity can be produced by applying a resin such as a silicon-modified resin, a resin containing polysiloxane or a resin containing colloidal silica, as an **adhesive** layer between a **photocatalyst** layer and carrier, on various general-purpose plastic substrates such as polyester, polyurethane, acrylic, nylon...of adhesive and photocatalyst layers and thickness of each layer.

Table 3 shows compositions of **adhesive** -layer coating materials

The **photocatalytic** activity, **adhesiveness** , alkali resistance, the results of sunshine **weather** meter test, whole light transmittance and Haze percentage of the obtained photocatalyst-carrying structure are...

12/3,AB,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

00830629
PHOTOCATALYST-CARRYING STRUCTURE AND PHOTOCATALYST COATING MATERIAL
TRAGERSTRUKTUR MIT PHOTOKATALYSATOR UND PHOTOKATALYTISCHES BESCHICHTUNGSMATERIAL
STRUCTURE PORTEUSE DE PHOTOCATALYSEUR ET MATERIAU DE REVETEMENT PHOTOCATALYTIQUE
PATENT ASSIGNEE:
NIPPON SODA CO., LTD., (300140), 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-8165, (JP), (applicant designated states: AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)
INVENTOR:
KIMURA, Nobuo, Odawara Research Center, Nippon Soda Co., Ltd, 345, Takada , Odawara-shi, Kanagawa 250-02, (JP)
ABE, Shinji, Odawara Research Center, Nippon Soda Co., Ltd, 345, Takada, Odawara-shi, Kanagawa 250-02, (JP)
YOSHIMOTO, Tetsuo, Odawara Research Center, Nippon Soda Co., Ltd, 345, Takada, Odawara-shi, Kanagawa 250-02, (JP)
FUKAYAMA, Shigemichi, Odawara Research Center, Nippon Soda Co., Ltd, 345, Takada, Odawara-shi, Kanagawa 250-02, (JP)
LEGAL REPRESENTATIVE:
van Westenbrugge, Andries et al (62593), Nederlandsch Octrooibureau P.O. Box 29720, 2502 LS The Hague, (NL)
PATENT (CC, No, Kind, Date): EP 923988 A1 990623 (Basic)
EP 923988 A1 990714
WO 9700134 970103
APPLICATION (CC, No, Date): EP 96917713 960618; WO 96JP1669 960618
PRIORITY (CC, No, Date): JP 17542295 950619; JP 34933495 951220; JP 34933595 951220; JP 34933695 951220; JP 34933795 951220; JP 34933895 951220; JP 35374295 951228; JP 3435096 960129; JP 5246996 960215; JP 6367396 960226; JP 15011596 960521
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: B01J-035/02;
ABSTRACT EP 923988 A1
The present invention provides a photocatalyst-carrying structure which has a structure, wherein an adhesive layer is provided in between a photocatalyst layer and a substrate, the adhesive layer is composed of silicon-modified resin, polysiloxane-containing resin or colloidal silica-containing resin, and for forming the photocatalyst layer a composition comprising a metal oxide gel or a metal hydroxide gel and a photocatalyst is used. Further, the present invention also provides a photocatalyst coating agent for producing a photocatalyst-carrying structure which contains silicon compound, at least one metal oxide sol or metal hydroxide sol, and at least one photocatalyst powder or sol.
ABSTRACT WORD COUNT: 100
LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:
Available Text Language Update Word Count
CLAIMS A (English) 9925 1914
SPEC A (English) 9925 16496
Total word count - document A 18410
Total word count - document B 0
Total word count - documents A + B 18410
...SPECIFICATION layer provides an effect to fix photocatalyst powder and to strongly adhere it to an **adhesive** layer, and therefore, a

photocatalyst -carrying structure comprising such metal oxide gel and/or metal hydroxide gel show excellent adhesibity, durability and **weather** resistance as shown in the examples of the embodiment for the present invention. In addition...
...by weight. When this content is less than 25% by weight, the binding with an **adhesive** layer may be insufficient, whereas **photocatalytic** activity may be insufficient when that content exceeds 95% by weight.
Furthermore, the binding described...condition.
According to the present invention, it is possible to provide a structure carrying an **adhesive** layer and a **photocatalyst** layer having high ...degree)C and 90% R. H. Additionally, in an accelerated weathering test by using Sunshine **weather** meter, a phtocatalyst-carrying structure able to show such a excellent weathering resistance being expressed...

12/3,AB,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.
00270927
Novel macromonomer compositions.
Makromer-Zusammensetzungen.
Compositions de macromere.
PATENT ASSIGNEE:
E.I. DU PONT DE NEMOURS AND COMPANY, (200580), 1007 Market Street, Wilmington Delaware 19898, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;LU;NL;SE)
INVENTOR:
Janowicz, Andrew Henry, 120 Birch Knoll Road, Wilmington, DE 19810, (US)
LEGAL REPRESENTATIVE:
Jones, Alan John et al (32391), CARPMAELS & RANSFORD 43 Bloomsbury Square , London, WC1A 2RA, (GB)
PATENT (CC, No, Kind, Date): EP 261942 A2 880330 (Basic)
EP 261942 A3 890906
EP 261942 B1 910731
APPLICATION (CC, No, Date): EP 87308395 870922;
PRIORITY (CC, No, Date): US 910589 860923
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: C08F-002/38; C08F-004/80; C08F-299/00;
ABSTRACT EP 261942 A2
Novel compositions of homopolymers and copolymers containing an olefinic polymerizable end group wherein the monomeric units comprise methacrylate, acrylate, acrylic acid, styrene, vinyl esters, acrylonitrile, methacrylonitrile, vinyl halides, vinylidene halides, substituted butadienes, ethylenesulfonic acid derivatives, acrylamide derivatives, methacrylamide derivatives, and other monomers, and mixtures thereof are disclosed.
ABSTRACT WORD COUNT: 51
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1541
CLAIMS B	(German)	EPBBF1	822
CLAIMS B	(French)	EPBBF1	1000
SPEC B	(English)	EPBBF1	5122
Total word count - document A			0
Total word count - document B			8485

Total word count - documents A + B 8485
...SPECIFICATION composite materials, multilayer coatings, photopolymerizable materials, photoresists, surface active agents including soil repellants and physiologically **active** surfaces, **adhesives** , adhesion promoters and coupling agents, among others. End products taking advantage of available characteristics can...
...architectural glazing and illumination housings and refractors, additives for oil and fuel, including antimisting agents, **outdoor** and indoor graphics including signs and billboards and traffic control devices, reprographic products and many

12/3,AB,K/11 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00425137
PHOTOCATALYTIC COATING COMPOSITION AND PHOTOCATALYST-BEARING STRUCTURE
COMPOSITION DE REVETEMENT PHOTOCATALYTIQUE ET STRUCTURE PORTEUSE DE PHOTOCATALYSEUR
Patent Applicant/Assignee:
NIPPON SODA CO LTD,
KIMURA Nobuo,
YOSHIMOTO Tetsuo,
Inventor(s):
KIMURA Nobuo,
YOSHIMOTO Tetsuo,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9815600 A1 19980416
Application: WO 97JP3590 19971007 (PCT/WO JP9703590)
Priority Application: JP 96286002 19961008; JP 96303608 19961029
Designated States: CN JP KR US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: Japanese
English Abstract
A photocatalyst-bearing structure usable particularly under a high-temperature and high-humidity environment and an **outdoor** environment where alkali resistance is required; and a photocatalytic coating composition for the preparation of the structure. The composition is characterized by comprising a photocatalyst and a zirconium compound and/or a tin compound for imparting alkali resistance. The structure comprises an **adhesive** layer provided between a **photocatalyst** layer and a carrier, characterized in that the photocatalyst layer comprises a photocatalyst and a zirconium compound and/or a tin compound for imparting alkali resistance.

14/6/6 (Item 6 from file: 348)
00260564
Moisture curable sealant compositions.
14/6/7 (Item 1 from file: 349)
00908630 **Image available**
APPARATUS **AND METHOD FOR APPLYING DOUBLE-COATED PRESSURE SENSITIVE** ADHESIVE **TAPE, AND METHOD FOR PRODUCING** CATALYTIC **CONVERTER**

14/3,AB,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.
01487204
APPARATUS **AND METHOD FOR APPLYING DOUBLE-COATED PRESSURE SENSITIVE** ADHESIVE **TAPE, AND METHOD FOR PRODUCING** CATALYTIC **CONVERTER**
APPAREIL ET PROCEDE POUR APPLIQUER UN RUBAN AUTO-ADHESIF DOUBLE FACE ET PROCEDE POUR PRODUIRE UN CONVERTISSEUR CATALYTIQUE
PATENT ASSIGNEE:
3M Innovative Properties Company, (2739383), 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427, (US), (Applicant designated States: all)
INVENTOR:
KANEKO, Shinichi, 345 Ogura-Siroyamamachi, Tsukuigun, Kanagawa 220-0115, (JP)
TOKUNAGA, Taishi, 5-3 Chuorinkan 5-chome, Yamato, Kanagawa 242-0007, (JP)
MATSUMOTO, Hideo, 2161-9-101 Kamimizo, Sagamihara, Kanagawa 229-1123, (JP)
PATENT (CC, No, Kind, Date):
WO 2002042617 020530
APPLICATION (CC, No, Date): EP 2001995148 011120; WO 2001US43374 011120
PRIORITY (CC, No, Date): JP 20003531 001120
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: F01N-003/28; C09J-007/02
LANGUAGE (Publication,Procedural,Application): English; English; English

14/3,AB,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.
01305362
System and method for adhering laminate to an alternate substrate material
Vorrichtung und Verfahren zum Kleben eines Laminats auf ein alternatives Substrat
Dispositif et methode pour appliquer un revetement sur un substrat alternatif
PATENT ASSIGNEE:
Premark RWP Holdings, Inc., (2324910), 300 Delaware Avenue, Wilmington, Delaware 19801, (US), (Applicant designated States: all)
INVENTOR:
Stolarski, Victoria L., 16601 FM 1325,2331, Austin, Texas 78728, (US)
Mafoti, Robson, 5663 Lower Troy Road, Temple, Texas 76501, (US)
McSpedon, John P., 4810 Stagecoach Trail, Temple, Texas 76502, (US)
Perrine, Paul T., 1216 North 4th Avenue, Killeen, Texas 76541, (US)
Young, Bruce E., 1407 Garnet, Killeen, Texas 76543, (US)
Krejchi, Mark T., 10915 Lake Whitney Drive, Temple, Texas 76502, (US)
LEGAL REPRESENTATIVE:
Patry, Didier Marcel Pierre (75523), Baker Botts 45 Ludgate Hill, London EC4M 7JU, (GB)
PATENT (CC, No, Kind, Date): EP 1118460 A1 010725 (Basic)
APPLICATION (CC, No, Date): EP 2000100950 000118;
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: B32B-031/20; B32B-031/24; B29K-55:02
ABSTRACT EP 1118460 A1
A system and method for substantially permanently bonding decorative laminates (101,103) to a polymeric or other alternative substrate

material (102) are disclosed. A preferred embodiment of the present invention utilizes a corona treater to increase surface tension of surfaces of a substrate material (102) in order to provide for improved adhesive bonding. Thereafter, a film of adhesive is applied to the surfaces to be mated with laminates, the laminates (101,103) are mated with the substrate surfaces having the adhesive film, and pressure is applied during curing of the adhesive. Precise control of parameters such as the thickness of the adhesive, the amount of catalyst introduced, the amount of pressure applied during curing, the duration of the application of pressure, the amount of heat present during curing, and the like, allows operation of the present invention to provide a suitably permanent bond between dissimilar materials such as high pressure decorative laminate, ABS polymeric substrate, and high pressure laminate backer.

ABSTRACT WORD COUNT: 159

NOTE: Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200130	2058
SPEC A	(English)	200130	8478
Total word count - document A			10536
Total word count - document B			0
Total word count - documents A + B			10536

...CLAIMS The system of claim 7, wherein said catalyzing agent introducing means comprises:

a spray delivery **apparatus** operable to deliver a controlled amount of said **catalyzing** agent to said coating of **adhesive** applied to said treated mating surface of said substrate material.

9. The system of any...

14/3,AB,K/6 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

00260564

Moisture curable sealant compositions.

Unter Feuchtigkeit Hartbare Dichtungszusammensetzung.

Composition d'etancheite durcissable a l'humidite.

PATENT ASSIGNEE:

ESSEX SPECIALTY PRODUCTS, INC., (660241), 1401 Broad Street, Clifton New Jersey 07015, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Rizk, Sidky D., 353 Orenda Circle, Westfield New Jersey 07090, (US)

Hsieh, Harry W.S., 1181 Main Street, Rahway New Jersey 07065, (US)

Prendergast, John J., 208 Stonehurst Boulevard, Freehold New Jersey 07728, (US)

LEGAL REPRESENTATIVE:

Raynor, John et al (43031), W.H. Beck, Greener & Co 7 Stone Buildings Lincoln's Inn, London WC2A 3SZ, (GB)

PATENT (CC, No, Kind, Date): EP 264675 A2 880427 (Basic)
EP 264675 A3 880713
EP 264675 B1 921014

APPLICATION (CC, No, Date): EP 87114258 870930;

PRIORITY (CC, No, Date): US 920747 861020

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: C08G-018/20; C08G-018/10; C09K-003/10;

ABSTRACT EP 264675 A2

A moisture curable sealant having good stability in the absence of moisture and a rapid cure rate in the sole presence of atmospheric moisture, said sealant comprising a polyurethane prepolymer having an isocyanate functionality between 2.3 and 3.0 and, admixed therewith as a catalyst, from 0.2 to 1.75 percent, by weight of said sealant, of dimorpholinodiethyl ether.

ABSTRACT WORD COUNT: 61

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	476
CLAIMS B	(German)	EPBBF1	496
CLAIMS B	(French)	EPBBF1	626
SPEC B	(English)	EPBBF1	3667
Total word count - document A			0
Total word count - document B			5265
Total word count - documents A + B			5265

...SPECIFICATION reference does not discuss isocyanate functionality or disclose an isocyanate functionality suitable for a one- part application. Moreover, for a person skilled in the art it is not obvious to substitute these **catalysts** by the catalysts tought by EP-A-0,086,621, since the latter is directed...

1/7/2 (Item 1 from file: 351)
DIALOG(R)File 351:Derwent WPI

008401407
WPI Acc No: 1990-288408/*199038*
Compsn. for covering of ball-game areas, etc. - comprises polyurethane prepolymer, amine-type hardener, acid-type catalyst, coarsely dispersed and extruded rubber crumb and filler
Patent Assignee: MOSC ENG-CONS (MOEN-R)
Inventor: BEVZ O V; MERKIN A P; VITELS L E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 1544781	A	19900223	SU 4238858	A	19870507	199038	B

Priority Applications (No Type Date): SU 4238858 A 19870507

Abstract (Basic): SU 1544781 A

The compsn. contains (in wt.%): urethane prepolymer of mol. wt. 1800-4500 100; amine-type hardener 7-20; acid-type catalyst 0.15-0.23; coarsely dispersed rubber crumb with particle size 1-3 mm 25-35; extruded rubber crumb 35-50; and mineral filler 5-15.

Prepn. of the compsn. involves adding a mixt. of extruded rubber crumb and amine-type hardener to a previously prepd. mixt. of the mineral filler with acid-type catalyst and the coarsely dispersed rubber crumb with 35-45 pts.wt. of the urethane prepolymer, followed by mixing, homogenising, adding the remaining urethane prepolymer and stirring. All operations are carried out or normal temp. (18-20 deg.C), and the whole process takes 12-15 mins.

Typical properties of the covering obtd. from the compsn. are as follows: adhesive strength 0.73-0.76 MPa; recoil elasticity 84-87%; dynamic depth of dye indentation 1.0-1.2%; gas phase content per unit surface area 2-4; tensile strength 4.20-4.61 MPa; and abradability 0.08-0.09 cc.

USE/ADVANTAGE - Prodn. of covering layers for indoor and outdoor tennis courts and basket-ball, volley-ball and other sports sites. The covering has improved adhesion and elasticity. Bul. 7/23.2.90 (3pp Dwg.No.0/0)

Derwent Class: A25; A93; G02
International Patent Class (Additional): C09D-175/04
?

1/7/1
DIALOG(R)File 31:World Surface Coatings Abs

00444573 WSCA ABSTRACT NUMBER: 91-02089 WSCA ID NUMBER: 322089
Composition for covering of ball-game areas, etc.
PATENT ASSIGNEE: MOSCOW ENG CONS INST;
PATENT INFORMATION: Russian Patent , 3 pp: Soviet Pat. Abs 1990, Vol 90 No 38, Gp G, 1.
PATENT (NUMBER,DATE): SU 1544781 19900000
PUBLICATION YEAR: 1990

ABSTRACT: The compsn. has improved adhesion and elasticity. It is prepared at normal temp (18-20 deg. C) by adding a mixture of extruded rubber crumb (35-50 wt. %) and amine-type hardener (7-20 wt. %) to a previously prepared mixture of mineral filler (5-15 wt. %) with acid-type catalyst (0.15-0.23 wt. %), 25-35 wt. % coarsely dispersed rubber crumb of particle size 1-3 mm, and 35-45 parts weight of urethane prepolymer of MW 1800-4500. After mixing further urethane prepolymer is added. The **compsn** . may be used for **both indoor** and **outdoor sports surfaces** .

1/3,KWIC/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)

03541039 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Baling develops the fourth generation rubber--SEBS. (New Products) (Baling Petrochemical Co Ltd)
China Chemical Reporter, v 13, n 25, p 22(1)
September 06, 2002
DOCUMENT TYPE: Journal ISSN: 1002-1450 (China)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 224

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
SEBS is widely used in production of high level **elastomers** , **adhesives** , lube tackifiers, filling materials or coatings for cables and wires. In addition, it can find uses in toys, tools, handles, stationery, **sports equipment** and automobiles. At present, all of SEBS needed in China is imported from abroad at a extremely high value. The total capacity of SEBS is...

1/3,KWIC/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

10154178 Supplier Number: 92865047 (USE FORMAT 7 FOR FULLTEXT)
Baling develops the fourth generation rubber--SEBS. (New Products).(New type thermoplastic elastomer rubber)(International Pages)(Brief Article)(Product Announcement)
China Chemical Reporter, v13, n25, p22(1)
Sept 6, 2002
Language: English Record Type: Fulltext
Article Type: Brief Article; Product Announcement
Document Type: Magazine/Journal; Trade
Word Count: 244

... c high temperature or - 60(degrees)C low temperature. Moreover, its insulation property is fairly well.
SEBS is widely used in production of high level **elastomers** , **adhesives** , lube tackifiers, filling materials or coatings for cables and wires. In addition, it can find uses in toys, tools, handles, stationery, **sports equipment** and automobiles. At present, all of SEBS needed in China is imported from abroad at a extremely high value. The total capacity of SEBS is...

1/3,KWIC/3 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008341690
WPI Acc No: 1990-228691/199030
XRAM Acc No: C90-098902
polyUrethane curative for urethane foams, etc. - comprises at least one aliphatic and/or alicyclic diisocyanate cpd. and at least one polyisocyanate
Patent Assignee: DAICEL-HULS KK (DAIC-N)

Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2157255	A	19900618	JP 88309360	A	19881207	199030	B

Priority Applications (No Type Date): JP 88309360 A 19881207

...Abstract (Basic): good weather resistance and tensile and impact strengths and heat resistance without yellowing when in air for long periods. Useful as materials for urethane foams, **elastomers** , **adhesives** and RIM for **sports goods** , construction materials clothes and coating materials. (9pp Dwg.No.0/0)

1/3,KWIC/4 (Item 1 from file: 654)
DIALOG(R)File 654:US PAT.FULL.

4614674
Derwent Accession: 1998-316800
Utility
C/ **Extended syndiotactic polystyrene-elastomeric block copolymers; HEAT RESISTANCE, SOFTNESS, ELASTICITY AND MECHANICAL STRENGTH, ALSO CAN BE MOLDED INTO INDUSTRIAL MATERIALS SUCH AS ELECTRIC AND ELECTRONIC MATERIALS, INDUSTRIAL CONSTRUCTION MATERIALS, CAR PARTS, DOMESTIC ELECTRICAL APPLIANCES AND MECHANICAL PARTS**
Inventor: Kang, Jung W., Honolulu, HI
Wang, Xiaorong, Akron, OH
Luo, Xiao-Liang, Akron, OH
Clark, Frank J., Massillon, OH
Poulton, Jason T., Newark, OH
Matsuse, Takahiro, Kodaira, JP
Mashita, Naruhiko, Kodaira, JP
Takeichi, Hideo, Akron, OH
Toyosawa, Shinichi, Tokorozawa, JP
Assignee: Bridgestone Corporation (03), Tokyo, JP
Bridgestone Corp JP (Code: 11216)
Examiner: Niland, Patrick D. (Art Unit: 174)
Law Firm: David G. BurlesonJude A. Fry

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6329459	A	20011211	US 96710829	19960923
Priority				US 96710829	19960923

Fulltext Word Count: 8671

Summary of the Invention:
...hydrogenated styrene-butadiene-styrene block copolymer (SEBS), styrene-isoprene-styrene block copolymer (SIS), ethylene/propyrene rubber (EPR), and ethylene/propylene/diene rubber (EPDM), butadiene/acrylonitrile **elastomer** , **adhesives** like Reostomer (produced by Riken-Vinyl Inc.), hydrogenated styrene-isoprene-styrene block copolymers such as Hybler (produced by Kurare Inc.), polynorbornenes such as Norsorex (produced...electric fans, vacuums, driers, printers and ventilator fans. Further, these materials are also suitable for impact absorbing materials in audio equipment, electronic or electrical equipment, **sporting goods** and shoes. Further, as super low hardness

rubbers, these materials are applicable for use in appliances, damping rubbers, and as low hardness plastics, and they...

1/3,KWIC/5 (Item 2 from file: 654)
DIALOG(R)File 654:US PAT.FULL.

4258794
Derwent Accession: 1998-521188
Utility
C/ **Foamable compositions comprising low viscosity thermoplastic material comprising an ethylene [alpha]-olefin; ETHYLENE-ALPHA-OLEFIN INTERPOLYMER, AND AT LEAST ONE DILUENT INCLUDING WAXES, PLASTICIZERS, TACKIFYING RESIN, AND MIXTURES THEREOF; VISCOSITY OF LESS THAN 100,000 CPS AT 400 DEGREES F UPON FOAMING; FOAMING BY FORMING A SOLUTION WITH A GAS**
Inventor: McKay, Kevin W., St. Paul, MN
Simmons, Eugene R., St. Paul, MN
Woodbridge, Donald P., St. Paul, MN
Assignee: H.B. Fuller Licensing & Financing, Inc. (02), St. Paul, MN
Fuller, H B Licensing & Financing Inc (Code: 25828)
Examiner: Nutter, Nathan M. (Art Unit: 171)
Combined Principal Attorneys: Quan, Nancy N.; Fischer, Carolyn A.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6008262	A	19991228	US 97913456	19970916
CIP	Abandoned			US 96615750	19960314
PCT	WO NONE			WO 97US16422	19970916
		371	19970916		
		102e	19970916		
Priority				US 97913456	19970916
				US 96615750	19960314

Fulltext Word Count: 12185

Summary of the Invention:
...gas in the solution for economic and other reasons, e.g., to maximize caliper. Thus, the amount of gas which is incorporated into the molten **elastomeric adhesive** material may be selected so as to provide a foam having desired density or caliper. However, since the foam modulus tends to decrease with decreasing...packs, exercise weight belts, traction pads and belts, cushions for splints, slings and braces, soles and/or inserts for shoes. Other uses include toys and **sporting goods** such as fishing baits...

1/3,KWIC/6 (Item 1 from file: 763)
DIALOG(R)File 763:Freedonia Market Res.

00171354

PRIVATE COMPANY PROFILES: Dash Multi-Corporation

Main Title: ADHESIVES & SEALANTS - PRIVATE COMPANIES REPORT
Pub. Date: MAY 1999
Source: THE FREEDONIA GROUP, INC.

Telephone: (440) 684-9600
Word Count: 293 (1 pp.)
Language: English

Country: UNITED STATES
Industry: CHEMICALS
Company Names (DIALOG Generated): Annual Sales ; Dash Multi Corporation ; MarChem Chemical Companies

...and cushioning materials

Census Code SIC(s): 2295; 2821; 2891; 3086; 3087

SIC Description(s): coated fabrics, not rubberized; plastic materials, synthetic resins and nonvulcanizable **elastomers** ; **adhesives** and sealants; plastic foam products; custom compounding of purchased plastic resins

Dash Multi-Corporation is a holding company with subsidiary companies involved primarily in the...

...underlayment and cushioning materials.

The Company participates in the adhesives and sealants industries through its MarChem Chemical Companies. These companies are producers of polyurethane foams, **elastomers** , **adhesives** , polyvinyl chloride (PVC) plastisols and color concentrates. In addition to its Maryland Heights, Missouri headquarters, MarChem operates four facilities in Adairsville, Georgia; Newark, New Jersey repellency of cotton and synthetic fabrics and can be used with flame resistant fabrics without affecting the flame resistance performance properties. Applications include garments, **sporting goods** equipment, tents, awnings, boat covers, leather and canvas fabrics. Other MarChem products include vinyls for protective coatings and urethane adhesives for scrap foam and granulated...

1/3,KWIC/7 (Item 2 from file: 763)
DIALOG(R)File 763:Freedonia Market Res.

00108846

COMPANY PROFILES: Dexco Polymers

Main Title: WORLD THERMOPLASTIC ELASTOMERS TO 2000
Pub. Date: JULY 1996
Source: THE FREEDONIA GROUP, INC.
Telephone: (216) 921-6800
Word Count: 717 (1 pp.)
Language: English

Country: UNITED STATES
Industry: PLASTICS
Company Names (DIALOG Generated): Dexco Polymers ; Dow Chemical ; Exxon Corporation ; FDA ; US Food and Drug Administration

...strength, color stability, and heat and aging resistance than

H.B. Fuller Company

3530 North Lexington Avenue
St. Paul, Minnesota 55126
TEL: 1-888-423-8553
FAX: 1-800-528-6079

TECHNICAL DATA SHEET

RESIWELD (R) ADHESIVE

DESCRIPTION

Most versatile two component adhesive in our line. Translucent, amber in appearance. Bonds to most metals and rigid plastics, rubber, concrete, wood, ceramics and most other fabricating materials. Features high shear strength with high impact, chemical and water resistance. Service temperatures can range from -100 deg. F to 200 deg. F with blending ratios from 1/1 by volume (flexible) to 2/1 by volume (rigid). Easy product to mix by hand or meter/mix equipment. Typical applications include wood lamination for sporting goods, potting small parts for electronics and as an all purpose adhesive.

TYPICAL PHYSICAL PROPERTIES and GENERAL INFORMATION

	Part A	Part B	Blend
RESIN SYSTEM	EPOXY	POLYAMIDE	EPOXY
COLOR	MILKY WHITE	DARK AMBER	AMBER
VISCOSITY (cP (mPa.s))	3500	5,500	13,500
WEIGHT PER U.S. GALLON (POUNDS)	9.6	8	9.1
SOLIDS (%)	100	100	100
BLENDING RATIO BY VOLUME (A/B)			100/50
BLENDING RATIO BY WEIGHT (A/B)			100/42
SHELF LIFE	ONE YEAR	ONE YEAR	
VOC AS IS - THEORETICAL METHOD (GRAM/LITER)	90	90	0
VOC LESS WATER & EXEMPT-THEO. METH. (GRAM/LITER)	90	90	0
GEL TIME SAMPLE VOLUME IN FLUID OZ. (FL.OUNCES)			3
GEL TIME TEMPERATURE (F.) (DEGREES F.)			77
GEL TIME IN MINUTES (MINUTES)			60
GOVERNMENT SPECIFICATION NUMBER			WS 3490
GOVERNMENT SPECIFICATION NUMBER			WS 17351
GOVERNMENT SPECIFICATION NUMBER			WS 11539
GOVERNMENT SPECIFICATION NUMBER			MIS 20163
GOVERNMENT SPECIFICATION NUMBER			WS 11540

APPLICATION AND EQUIPMENT SUGGESTIONS

Suitable two part metering and mixing equipment is available. Contact your H.B. Fuller representative for suggested application equipment to suit your specific needs.

H.B. Fuller Company

3530 North Lexington Avenue
St. Paul, Minnesota 55126
TEL: 1-888-423-8553
FAX: 1-800-528-6079

DIRECTIONS FOR USE

SURFACE PREPARATION: Surfaces must be clean, dry and free from grease, oil, paint, wax and weak oxide films and other surface contaminants. Chemical etching, sanding or grit blasting often give the best results.

PROPORTIONING AND MIXING: Just prior to using, blend the two components, Part A and Part B, in the ratio above. Stir the two components together thoroughly, being certain to scrape in all material from the walls and bottom of the mixing container. Materials can be hand stirred. Mechanical mixing is preferrable, but should be carried out at slow speeds (about 300 rpm), taking as little air as possible into the adhesive batch.

APPLICATION: Spread a thin layer of the mixed adhesive on one or both of the parts to be bonded. Once the adhesive is applied, no open time is necessary. The surfaces can be assembled immediately. Parts should be assembled while the adhesive is still wet to the touch and before it sets. The individual parts, the ambient temperature as well as the adhesive itself will dictate the open time permitted.

CURE SCHEDULE: 10-14 days at 77F
3-4 hours at 158F*
1-2 hours at 200F*

* Allow additional time for parts to warm up to curing temperature.

H.B. Fuller Company

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PERFORMANCE CHARACTERISTICS

Lap Shear Tensile Strength	Rigid Ratio	Flexible Ratio
-67F	3,275 psi	3,950 psi
77F	4,575 psi	5,200 psi
180F	1,500 psi	700 psi
After 30 days @ 95% RH, 120F	2,750 psi	1,700 psi
After 7 days imm. in std. Test Fl.#3	4,150 psi	5,200 psi
Climbing Drum Peel, lbs./in. width	13	12
Average Peel Torque, lbs./in. width	6.5	6
T-Peel (MMM-A-132), lbs./in. width	1.5	1.5
Cleavage Strength, lbs./in. width	1,050	1,250
Heat Deflection Temperature	147 F	114 F
Compressive Strength	19,300 psi	18,600 psi
Hardness: Shore D	70-85	65-80
Flexural Strength	9,400 psi	11,200 psi
Izod Impact, ft. lbs./in. width	0.45	0.7
Coefficent of Linear Thermal Expansion	48 x 10 exp -6	--

STORAGE AND HANDLING

Use good personal hygiene. Avoid eye and skin contact. Wash contaminated clothing before reuse. Store material in a closed container in a cool, dry place. The shelf life of this product is as specified under the "Typical Physical Properties and General Information" section from date of shipment; when stored under the conditions stated on this technical data sheet.

If crystallization occurs in the containers of this product's part A, warm the product to 120F to 140F and it will return to its original liquid state. However, stir before using.

CAUTION

Strong sensitizer. Eye and skin irritant. Vapors harmful. Consult the container label and Material Safety Data Sheets for additional cautionary information before using.

H.B. Fuller Company

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FAX: 1-800-528-6079

LIMITED WARRANTY AND TERMS

H.B. Fuller Company ("Fuller") warrants that, for a Warranty Period of one year (or the period specified on the applicable Technical Data Sheet, whichever is less) from the date of shipment from Fuller to the Initial Purchaser, that this Fuller product was manufactured in accordance with Fuller's specifications in effect on the date of manufacture. These specifications are available upon request. This Warranty does not cover test data, or any defects, damages or other harms caused to any extent or in any way by failure to follow applicable Fuller instructions, if any, or abuse or misuse of the product.

WARRANTIES DISCLAIMED -- THE WARRANTY STATED IN THE PARAGRAPH ABOVE IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. Fuller EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALTHOUGH Fuller MAY HAVE SUGGESTED THE PRODUCT OR DEVELOPED THE PRODUCT AT THE PURCHASER'S REQUEST, IT IS THE PURCHASER'S RESPONSIBILITY TO TEST AND DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURCHASER'S INTENDED USE AND PURPOSE, AND PURCHASER ASSUMES ALL RISK AND LIABILITY WHATSOEVER REGARDING SUCH SUITABILITY.

LIMITATIONS OF REMEDIES AND DAMAGES -- FOR ANY VALID CLAIM PRESENTED UNDER THE LIMITED WARRANTY, Fuller WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS REPLACEMENT/REFUND REMEDY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST Fuller. THE PURCHASER AGREES THAT NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO PURCHASER FOR CLAIMS ARISING OUT OF ANY USE OF THE PRODUCT REGARDLESS OF THE LEGAL THEORY (CONTRACT, TORT OR OTHER). IN NO EVENT WILL Fuller BE OBLIGATED TO PAY DAMAGES TO PURCHASER IN ANY AMOUNT EXCEEDING THE PRICE THAT THE PURCHASER PAID FOR THE PRODUCT.

LIMITATION OF ACTIONS AND VENUE -- Any claim made or action commenced by Purchaser under Fuller's limited warranty as set forth herein must be brought within one year from the date of shipment from Fuller to the Purchaser. Purchaser agrees that all disputes arising from Fuller's sale of product to Purchaser shall be brought, if at all, in and before a court located in the State of Minnesota, to the exclusion of the courts of any other state.

CONDITIONAL ACCEPTANCE -- Fuller's acceptance of Purchaser's order for this product is expressly conditional on Purchaser's assent to terms and conditions set forth herein.

ADEQUATE TESTS: The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all of your requirements.